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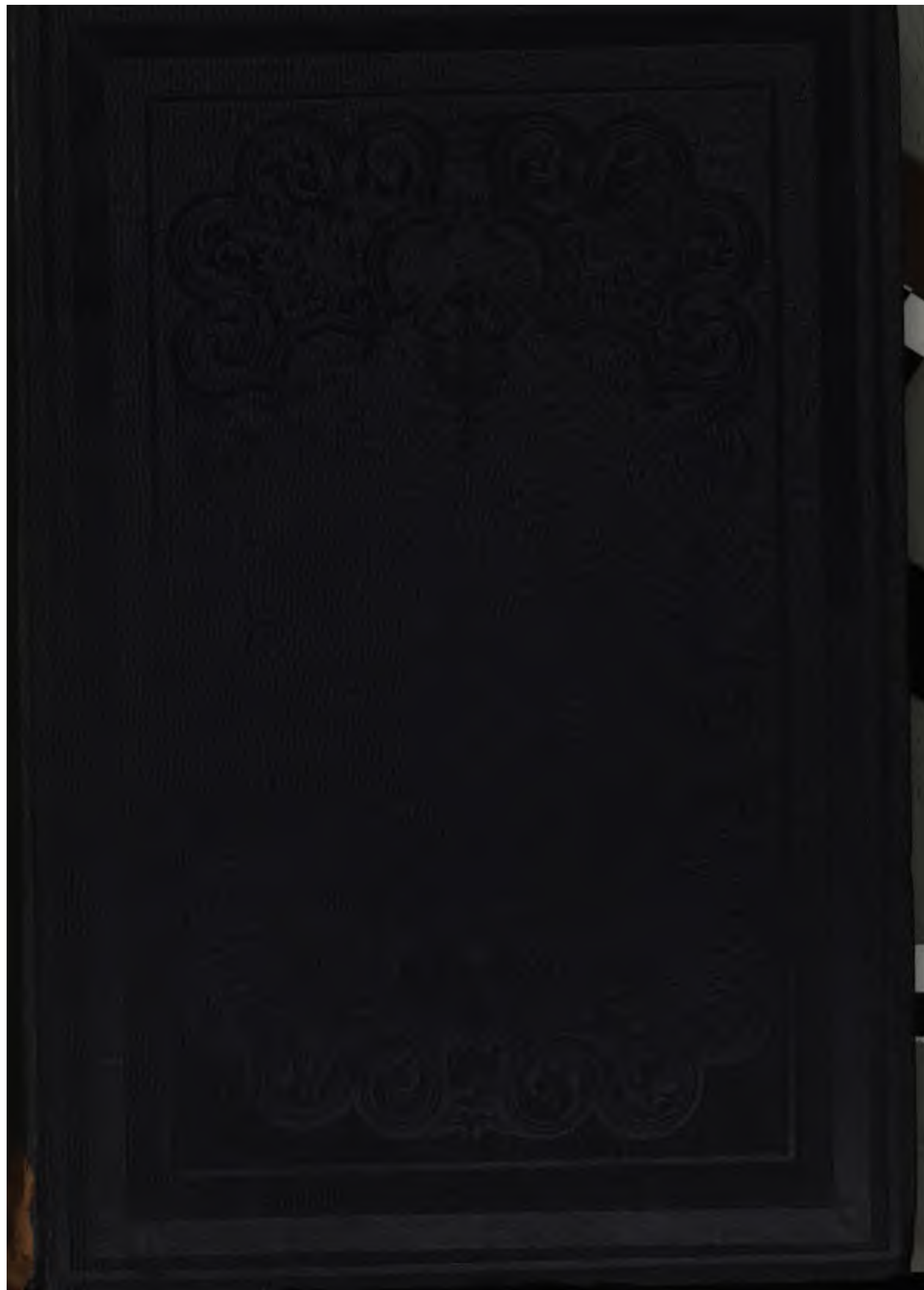
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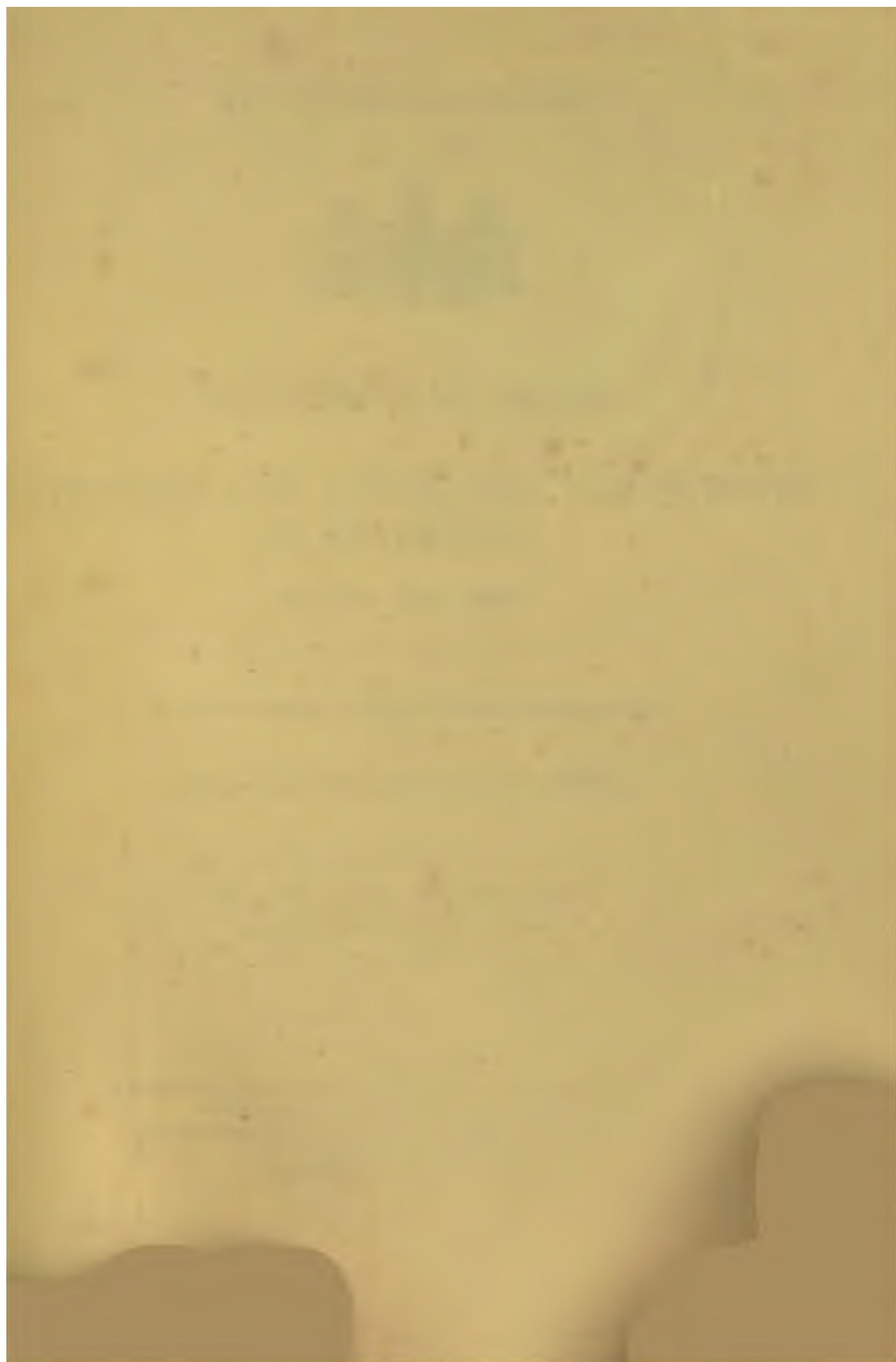
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15 & 16 VICTORIÆ, Cap. 83. Sec. XXXII.



ALPHABETICAL INDEX
OF
PATENTEES AND APPLICANTS FOR PATENTS
OF INVENTION,
For the Year 1869.

Printed and Published by Order of the Commissioners of Patents,

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ALPHABETICAL INDEX

OF

PATENTEES AND APPLICANTS FOR PATENTS OF INVENTION,

FOR THE YEAR 1869.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
A.			
ABBEY, GEORGE THACKERAY -	2218	21st July 1869	Breech-loading fire-arms.
ABBOTT, LEONARD JOHN -	2110	13th July 1869	Effervescing and aerated drinks and waters.
ABBOTT, THOMAS - - -	2331	4th Aug. 1869	An improved mode of boiling size and in the apparatus employed therein.
ABEL, CHARLES DENTON -	268	28th Jan. 1869	Machinery or apparatus for washing, win- cing, fulling and finishing textile fabrics. (Communicated by Alexandre Six.)
ABEL, CHARLES DENTON -	305	1st Feb. 1869	Improved modes of and apparatus for casting ingots. (Communicated by Zoketh Sherman Durfee.)
ABEL, CHARLES DENTON -	330	3rd Feb. 1869	The production of a new or improved hydraulic cement or artificial stone. (Communicated by Jules Antoine Dubus.)
ABEL, CHARLES DENTON -	668	5th March 1869	An improved injector. (Communicated by C. W. Julius Blancke and Co.)
ABEL, CHARLES DENTON -	789	15th March 1869	Improvements in healds and heald frames for weaving, and in the manufacture of the said healds. (Communicated by Auguste Glattard.)
ABEL, CHARLES DENTON -	1124	13th April 1869	An improved machine or apparatus for aërial navigation. (Communicated by Emile Jombart.)
ABEL, CHARLES DENTON -	1227	21st April 1869	A new or improved method of and mate- rials for the preparation of mural paint- ings. (Communicated by Pierre Oury and Paul Cousin.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
ABEL, CHARLES DENTON -	1269	24th April 1869	Velocipedes. (Communicated by Leon Mangin.)
ABEL, CHARLES DENTON -	1391	6th May 1869	Treatment of cast-iron for the production of wrought-iron and steel therefrom. (Communicated by William MacLay Lyon.)
ABEL, CHARLES DENTON -	1441	11th May 1869	Galvanic batteries. (Communicated by Emile Joseph Delaurier.)
ABEL, CHARLES DENTON -	1902	22nd June 1869	Apparatus or machinery for opening and closing gates, doors or barriers, and for actuating semaphore signals, by means of electricity. (Communicated by Adolphe de Bergmüller and Wilhelm Wolters.)
ABEL, CHARLES DENTON -	1952	28th June 1869	An improved ventilating hat or covering for the head. (Communicated by Achille Chevrillon.)
ABEL, CHARLES DENTON -	1999	2nd July 1869	Mode of and materials for preparing corks for rendering them impermeable under the action of wines and other liquids, either when charged with gases or not. (Communicated by Auguste de Müller.)
ABEL, CHARLES DENTON -	2031	6th July 1869	Apparatus or machinery for composing and distributing type. (Communicated by Charles Kästenbein.)
ABEL, CHARLES DENTON -	2096	12th July 1869	Apparatus for cleansing grain more particularly applicable to flour mills. (Communicated by Charles Vannier.)
ABEL, CHARLES DENTON -	2138	15th July 1869	Improvements in coiled springs and in the machinery employed for making the same. (Communicated by William Metcalf.)
ABEL, CHARLES DENTON -	2321	3rd Aug. 1869	Improved mechanism for converting reciprocating rectilinear motion into rotary motion, and for converting rotary motion into reciprocating rectilinear motion. (Communicated by Onésime Alexis Benjamin Martin and Leopold Frédéric Bazin.)
ABEL, CHARLES DENTON -	2533	26th Aug. 1869	Means and apparatus for separating or dividing the carded fleece into slivers in carding-machines for all kinds of filaments. (Communicated by Jean Baptiste Marée-Giot and Louis Julien Varlet-Marée.)
ABEL, CHARLES DENTON -	2681	14th Sept. 1869	A new or improved appliance or apparatus for preventing accidents through the closing of doors and windows. (Communicated by Theophile Périer and Jules Martin.)
ABEL, CHARLES DENTON -	2818	28th Sept. 1869	The production of a new or improved green colouring matter for dyeing and printing. (Communicated by Alcide Poirrier, Charles Bardy and Charles Lauth.)
ABEL, CHARLES DENTON -	3080	23rd Oct. 1869	A new or improved manufacture of metallic tiles or slates for roofing. (Communicated by Alfred Camille de la Martelière.)
ABEL, CHARLES DENTON -	3140	29th Oct. 1869	An improved method of and apparatus for moulding and casting metal columns. (Communicated by Felix Courtois.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
ABEL, CHARLES DENTON -	3292	15th Nov. 1869	A new or improved process for refining and desilvering lead and apparatus employed for that purpose. (Communicated by Messrs Gustave Luce, Son and Rozan.)
ABEL, CHARLES DENTON -	3344	20th Nov. 1869	Means and apparatus for utilizing streams, subterranean and other springs, lakes, ponds and other surface waters as motive-power. (Communicated by Jules Gabriel Hanriau.)
ABEL, CHARLES DENTON -	3687	20th Dec. 1869	Ploughs and cultivators for tilling the soil. (Communicated by Joseph Stephen Godfrey.)
ABENDROTH, WILLIAM PHILIP	3754	28th Dec. 1869	Sectional steam-boilers. (Patented by William Robert Lake.)
ABSTERDAM, JOHN - -	18	4th Jan. 1869	Certain improvements in the process of refining iron and making steel, and in the apparatus used in carrying out said process. (Patented by Henri Adrien Bonneville.)
ABSTERDAM, JOHN - -	186	20th Jan. 1869	Improvements in the manufacture of illuminating gas and of sponge, by the action of hydrocarbon liquids or fluids on metallic ores, and in the furnaces for melting said sponge and other metals. (Patented by Henri Adrien Bonneville.)
ABSTERDAM, JOHN - -	3697	21st Dec. 1869	Improvements in the manufacture of steel and of steel bars, rails and plates, and in the furnaces and moulds employed in such manufacture. (Patented by William Robert Lake.)
ACTON, BENJAMIN - -	3465	30th Nov. 1869	Machinery for feeding carding-engines.
ADAM, GEORGE HALL - -	300	30th Jan. 1869	New or improved apparatus to enable the driver of a locomotive engine to ascertain the condition of the train drawn by the said engine.
ADAM, WILLIAM M ^c - -	798	16th March 1869	Packing bottles and other frangible articles.
ADAM, WILLIAM M ^c - -	1549	19th May 1869	Improvements in the manufacture of pottery and in the machinery or apparatus employed therefor.
ADAM, WILLIAM M ^c - -	3734	24th Dec. 1869	Improvements in collecting fares or payments on tramway cars, omnibuses and on railways, and in the apparatus or means employed therefor, which improvements may also be applied for collecting money at places of amusement and elsewhere.
ADAMS, HENRY - - -	1320	28th April 1869	Graining in oil colours.
ADAMS, HENRY WRIGHT -	163	18th Jan. 1869	Improvements in the burning of bricks and other like articles, and in the kilns and apparatus employed therein. (Patented by John Henry Johnson.)
ADAMS, ISAAC, jun ^r . - -	3125	28th Oct. 1869	Electro-deposition of nickel. (Patented by William Brookes.)
ADAMS, JAMES - - -	606	27th Feb. 1869	Means of communicating and signalling between passengers, guards and drivers of railway trains.
ADAMS, JOHN FRANCIS - -	944	29th March 1869	Stereoscopes. (Patented by Alexander Clark.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
ADAMS, JOSEPH - - -	1134	13th April 1869	Joints for railroad rails. (Patented by William Edward Newton.)
ADAMS, JOSEPH H. - -	1081	9th April 1869	Presses for compressing and packing cotton, wool, hay, hides and other fibrous and plastic substances. (Patented by Robert Joseph Morison.)
ADAMS, NELSON KINGSLAND -	2811	27th Sept. 1869	Lappet or embroidering looms. (Patented by William Edward Newton.)
ADAMS, SAMUEL - - -	1870	17th June 1869	Certain improvements in velocipedes for one or more persons, which said improvements are also applicable for other useful purposes.
ADAMS, THOMAS - - -	2893	5th Oct. 1869	Slide valves and pistons of steam and other engines.
ADAMS, WILLIAM - - -	359	5th Feb. 1869	Bearing springs of carriages, trucks and engines used on railways and common roads.
ADAMS, WILLIAM - - -	3750	27th Dec. 1869	Breech-loading fire-arms.
ADAMSON, DANIEL - - -	1377	5th May 1869	Certain improvements in portable and other steam-engines and boilers, and in apparatus employed in the construction thereof.
ADAMSON, WILLIAM BENNET-	494	18th Feb. 1869	Tools and machinery employed for cutting stone, slate, marble, rock and other substances.
ADAMSON, WILLIAM BENNET-	1573	21st May 1869	Improvements in treating certain metallic substances and certain metallic articles, part of which improvements are also applicable to the construction of tools for cutting stone, slate, marble and other similar materials.
ADAMSON, WILLIAM BENNET-	3053	20th Oct. 1869	Cutlery, edge tools, agricultural and other implements.
ADAMSZ, ARNOLD - - -	2134	15th July 1869	Cigarettes.
ADDIS, WILLIAM JUDSON -	113	14th Jan. 1869	Improvements in the permanent way of railways, which improvements are also applicable for works where wedges are used. (Patented by Henry Vavasour and Charles Martin Wade.)
ADDY, ROBERT CHARLES -	3166	1st Nov. 1869	Spindles or flyers used for preparing and spinning flax, cotton, silk, wool and other fibrous materials.
ADELSWÄRD, GUSTAVE BARON [D'.	3321	18th Nov. 1869	Improved apparatus for the removal of dross out of blast furnaces.
ADERS, ROBERT - - -	8222	9th Nov. 1869	Tinning of metals. (Communicated by William Ernst Haarschhaus.)
AGNELLET, JOSEPH MARIE -	811	17th March 1869	Manufacture of pulp suitable for paper.
AIKMAN, FREDERICK ROBERT- [SON.	757	11th March 1869	Improvements applicable to fire-arms and ordnance for the purpose of facilitating instruction in firing with precision.
AINSWORTH, EDWARD - -	1873	13th June 1869	An improved drag motion applied to throstle frames and doubling frames used for spinning and doubling cotton and other fibrous substances.
AINSWORTH, JOSEPH - -	2554	28th Aug. 1869	Mangling and squeezing machines.
AITKEN, HENRY - - -	98	13th Jan. 1869	Lamps.
AITKEN, HENRY - - -	1197	19th April 1869	Treating iron ores or ironstones.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
AITKEN, JOHN - - -	2069	9th July 1869	Obtaining motive-power.
AITKEN, THOMAS - - -	3351	20th Nov. 1869	An improvement in "washer cloth" to be used in spinning or similar machinery.
ALAND, HENRY - - -	490	18th Feb. 1869	Compound rotary blowing fans for producing a compound blast of high density.
ALBINI, AUGUSTO - - -	838	19th March 1869	Repeating or revolving fire-arms.
ALEXANDER, JOSEPH FISHER -	3563	9th Dec. 1869	Undulating propellers for steam ships and other vessels.
ALEXANDRE, HELENE - - -	3514	4th Dec. 1869	Organs and similar musical instruments.
ALLAN, ALEXANDER - - -	3211	5th Nov. 1869	Boring tools. (Patented by Alexander Melville Clark.)
ALLAN, GEORGE - - -	1520	18th May 1869	Means or appliances for securing sheet metal and buckled or other metal plates employed for roofing, flooring, enclosures, and for covering other surfaces.
ALLAN, RAMSAY - - -	1007	3rd April 1869	Machinery for the manufacture of paper.
ALLAN, WILLIAM - - -	994	1st April 1869	Marine steam-engines.
ALLAN, WILLIAM - - -	2072	9th July 1869	Steam generators or boilers for marine purposes.
ALLAN, WILLIAM - - -	2494	21st Aug. 1869	Improvements in and apparatus for extinguishing fires in the holds or below decks of navigable vessels, whether arising from spontaneous combustion or other cause.
ALLBUT, JAMES - - -	1054	7th April 1869	Pumps for raising and forcing liquids.
ALLCARD, JAMES HOBSON -	274	29th Jan. 1869	Apparatus for grinding and polishing engine slide bars, shear blades, marble slabs, saw blades and other flat surfaces where great accuracy is required.
ALLEN, EDWARD ELLIS - -	3375	22nd Nov. 1869	Improvements in the construction of tramways and in engines and carriages employed thereon.
ALLEN, WILLIAM - - -	2622	6th Sept. 1869	Reaping and mowing machines. (Patented by William Edward Newton.)
ALLEY, STEPHEN - - -	3511	4th Dec. 1869	Breakwaters. (Communicated by John King.)
ALLIBON, GEORGE - - -	2209	21st July 1869	Steam-boilers.
ALLIBON, GEORGE - - -	2298	31st July 1869	Steam-engines.
ALLMAN, HERBERT - - -	75	11th Jan. 1869	Certain improved apparatus to be employed for signals on railway trains and for the like purposes.
ALLMAN, HERBERT - - -	635	2nd March 1869	Manufacture of tubes of metal to be employed in the construction of tubular telegraph poles, masts and spars, steam tubes and similar purposes.
ALLMAN, HERBERT - - -	2690	15th Sept. 1869	Improvements in the construction of ships' compasses commonly called "mariners compasses," and in apparatus connected therewith.
ALMAS, JEAN AUGUSTE COMBE [D'.]	753	11th March 1869	Improvements in the preparation of artificial fuel and in the manufacture of gas and coke therefrom. (Patented by John Henry Johnson.)
ALMAS, JEAN AUGUSTE COMBE [D'.]	3775	30th Dec. 1869	Production of cast-iron, iron and steel. (Patented by John Henry Johnson.)
ALMOND, JAMES - - -	955	30th March 1869	Looms for weaving.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
ALSTINE, CORNELIUS CHARLES [EDGAR VAN.	656	4th March 1869	An improved process for casting chain. (Patented by Edward Thomas Hughes.)
AMBERG, MELCHIOR - -	2717	18th Sept. 1869	A new or improved instrument for obtaining samples from bales of cotton-wool or other wool.
AMBLER, WILLIAM - -	2609	4th Sept. 1869	A new or improved method of advertizing, and the application of automatic means or apparatus to be employed for that purpose.
AMIES, THOMAS - -	1188	17th April 1869	Apparatus for heating water for warming greenhouses and other buildings, and for other purposes.
ANCION, ALFRED - -	2164	17th July 1869	Breech-loading fire-arms.
ANDERSON, FRANCIS SKELLY	3085	23rd Oct. 1869	Obtaining fuel and light from water.
ANDERSON, JAMES - -	1299	27th April 1869	Velocipedes.
ANDERSON, JAMES - -	2837	30th Sept. 1869	Improvements in treating and separating the constituents of maize, and in obtaining oil, starch, spirit and other products.
ANDERSON, MARK FRENCH -	3550	8th Dec. 1869	Improvements in treating sewage and in the manufacture of manure therefrom.
ANDOE, FRANCIS - -	646	3rd March 1869	Improved lowering apparatus intended to be used as a fire-escape and for obtaining access to the exterior or other wall surfaces of buildings.
ANDREW, MATTHEW - -	1214	20th April 1869	Improvements in vessels for containing oil or other liquids and in devices for drawing the contents from the same.
ANDREW, MATTHEW - -	1878	18th June 1869	Locks and latches.
ANDREW, MATTHEW - -	2672	11th Sept. 1869	Locks and latches.
ANDREW, MATTHEW - -	2963	12th Oct. 1869	Locks and latches.
ANDREWS, ABRAHAM SURRY	302	30th Jan. 1869	Horse collars.
ANDREWS, WILLIAM DRAPER	2414	12th Aug. 1869	Centrifugal pumps. (Patented by William Edward Newton.)
ANGEL, FREDERICK SPRAY -	1681	27th May 1869	Manufacture of tablets for advertizing and other purposes. (Communicated by Rudolph Schomburg.)
ANGELINI, CAVALIERE ACHILLE	2251	24th July 1869	Collars and false collars for horses and all other beasts of burden. (Patented by Cavaliere Leonida Caldesi.)
ANGELL, ALBERT - -	2011	3rd July 1869	Machinery for hulling and polishing coffee, rice and other berries or seeds.
ANGELL, ALBERT - -	3022	16th Oct. 1869	Machinery or apparatus for heating and delivering metal bars. (Communicated by Samuel A. Darrack.)
ANSELL, GEORGE FREDERICK	426	11th Feb. 1869	Manufacture of steel and iron.
ANSELL, GEORGE FREDERICK	2381	9th Aug. 1869	Manufacture of iron and steel.
ANSON, JAMES I', junr. -	2742	21st Sept. 1869	Locking apparatus for controlling railway switches and signals.
ANTHOINE, ALPHONSE - -	3185	3rd Nov. 1869	Metallic vessels intended to prevent all liquid or solid inflammable substances from igniting.
ANYON, WILLIAM - -	580	25th Feb. 1869	Construction of velocipedes.
ARCHIBALD, SAMUEL GEORGE	167	19th Jan. 1869	Improved machinery for cleaning boots and shoes, knives, forks, spoons and other articles, and for sharpening knives and other cutting instruments.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
ARCHIBALD, SAMUEL GEORGE	2793	25th Sept. 1869	Improved machinery for carding and twisting or spinning oakum and for balling the same.
ARDISSON, ANTOINE ANNIBAL	1803	11th June 1869	An improved apparatus for stopping horses when they run away or become unmanageable.
ARKLE, THOMAS WALTER -	1742	5th June 1869	Improvements in the mode and means for extracting, recovering or collecting copper from water containing the same in solution, and in apparatus therefor.
ARLINCOURT, LUDOVIC CHARLES ADRIEN JOSEPH GUYOT D'.	1920	23rd June 1869	Electric telegraph apparatus. (Patented by Alexander Melville Clark).
ARMAND, AUGUSTE MICHEL [HENRY.	39	6th Jan. 1869	Manufacture of artificial flowers and foliage from vegetable parchment.
ARMSTRONG, FRANK - -	2813	27th Sept. 1869	Improvements in knitting machines and in the production of selvages thereby. (Communicated by Henry A. House.)
ARMSTRONG, FRANK - -	3201	4th Nov. 1869	Sewing-machines. (Communicated by Henry A. House.)
ARMSTRONG, JOSEPH - -	172	19th Jan. 1869	Improvements in crossings and switch apparatus to be used with the permanent way of railways, part of which improvements is applicable to other purposes.
ARNOLD, SAMUEL GREENE -	3379	23rd Nov. 1869	Improvements in saws and saw teeth, and in machinery for manufacturing the same.
ARNOLD, WILLIAM - -	2051	7th July 1869	Improvements applicable to steam-boilers.
AROUD, FRANÇOIS - -	1970	30th June 1869	The incorporation of extract of meat with all kinds of sweetmeats or comfits, with syrups or any sweet or glucose matter, with quinine wine and all kinds of wines prepared with quinquina. (Patented by William Edward Gedge.)
ARSON, LOUIS FRANÇOIS ALEX- [ANDRE.	2705	16th Sept. 1869	Improvements in correcting the deviations of the mariners' compass and dipping needle, and in apparatus employed therein. (Patented by John Henry Johnson.)
ARTOIS, ETIENNE D' - -	343	4th Feb. 1869	An improved inkstand.
ASBURY, CHARLES - -	3305	16th Nov. 1869	Steam-boilers.
ASBURY, JOSEPH - -	3709	22nd Dec. 1869	Screw wrenches or screw spanners.
ASH, GEORGE - -	2437	14th Aug. 1869	An improved denture or appliance for carrying and supporting artificial teeth in the mouth by suction.
ASH, HENRY CLARKE - -	3482	1st Dec. 1869	Manufacture of churns.
ASHCROFT, GEORGE - -	1058	7th April 1869	Hydraulic presses.
ASHFORTH, GEORGE MORRIS -	3066	21st Oct. 1869	Improvements in obtaining and applying motive-power applicable to working sewing-machines and other useful purposes.
ASHTON, WILLIAM - -	1097	10th April 1869	Apparatus for ascertaining and indicating the "duty" of steam-engines, modifications of the said apparatus being also applicable to other purposes.
ASHWORTH, ELIJAH - -	353	5th Feb. 1869	Improvements in the method of manufacturing paper fasteners and in the apparatus employed in the manufacture thereof.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
ASHWORTH, GEORGE - -	353	5th Feb. 1869	Improvements in the method of manufacturing paper fasteners and in the apparatus employed in the manufacture thereof.
ASKEW, JOHN - - -	3925	15th Dec. 1869	An improved refrigerator for cooling brewers' and distillers' wort.
ASKHAM, JOHN UNWIN -	1023	5th April 1869	Manufacture of anvils.
ASPDEN, THOMAS - -	1302	27th April 1869	Boots and shoes.
ASPINALL, JOSEPH - -	1076	9th April 1869	Improvements in the construction and protection of telegraphic cables and in machinery for the manipulation of the same, part of the invention being applicable also to the preservation of vegetable substances from marine animals.
ASQUITH, WILLIAM - -	3902	13th Dec. 1869	Machinery to be employed for cutting and boring metals.
ATKINS, JAMES - - -	483	17th Feb. 1869	Manufacture of metallic bedsteads and other articles of metallic furniture.
ATKINSON, THOMAS - -	614	27th Feb. 1869	Means and apparatus for lighting domestic and other fires.
ATKINSON, THOMAS - -	1148	14th April 1869	Construction of indicators for indicating the distance travelled by carts, waggons, carriages or vehicles of every description.
ATKINSON, THOMAS - -	1318	28th April 1869	Apparatus to be used in cultivating land when steam power is employed.
ATKINSON, THOMAS - -	2881	5th Oct. 1869	Machinery or apparatus for expressing oil and for the manufacture of cake from the residue thereof.
ATTENBOROUGH, EDWARD -	2263	26th July 1869	Means and apparatus employed in the manufacture of looped or knitted fabrics.
ATWATER, THEODORE - -	1982	1st July 1869	An improved band for ladies' wear.
ATWOOD, JOHN EDWIN -	2758	22nd Sept. 1869	Threshing-machines. (Patented by Alfred Vincent Newton.)
AUCHINCLOSS, THOMAS -	2254	24th July 1869	Apparatus for heating feedwater and for feeding the same to steam-boilers.
AUDUS, JOHN MATTHEW -	3459	30th Nov. 1869	Improved machinery or apparatus for dressing millstones.
AUSTIN, JAMES BATTLE -	2402	11th Aug. 1869	Patterns for antique lace making and for embroidery.
AVERY, WILLIAM - - -	2998	14th Oct. 1869	Cases or receptacles for needles, pins, matches, pens, cards, stamps, photographs, cotton and other similar articles.
AVERY, WILLIAM - - -	3466	30th Nov. 1869	Umbrellas and parasols.
AXMANN, EDMUND - - -	2785	24th Sept. 1869	Watches and other time-keepers.
AZAMBUJA, ANTONIO D' -	1122	12th April 1869	Manufacture of felted fabrics.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
B.			
BABBITT, BENJAMIN TALBOT -	1288	26th April 1869	Steam generators and condensers. (Patented by William Edward Newton.)
BABCOCK, ALPHEUS - -	3260	12th Nov. 1869	Improvements in a machine for dusting brand or separating the flour from the brand after it has undergone the usual process of bolting, and also for cleaning cracked wheat and other grain. (Patented by Martin Benson.)
BABCOCK, WILLIAM - -	762	12th March 1869	A new or improved preservative paint or composition for protecting ships' bottoms, preserving submarine wood-work and other useful purposes. (Patented by Henry John Broughton Kendall.)
BACHELIER, EUGÈNE - -	517	19th Feb. 1869	Improved means for increasing the tractive power of road and other locomotive engines and carriages. (Patented by Alexander Melville Clark.)
BACHET, FRANÇOIS MARIE -	939	29th March 1869	Manufacture of soda and potash. (Patented by William Robert Lake.)
BACON, WILLIAM - -	836	19th March 1869	Improvements in the manufacture of iron and steel, and in furnaces and apparatus employed therein.
BADGER, ROLLA - - -	677	6th March 1869	Shears and scissors.
BADIOU, JEAN FRANÇOIS RÉGIS	2766	23rd Sept. 1869	An improvement in shoes for horses, mules or other analogous hoofed animals, and in apparatus for manufacturing such shoes.
BAGGS, ISHAM - - -	2116	14th July 1869	Generation and treatment of ammonia.
BAGSHAW, JOHN JAMES -	342	4th Feb. 1869	Improvements in machinery for manufacturing semolina and flour, and in apparatus for producing portions of such machinery.
BAGSHAW, JOHN JAMES -	927	27th March 1869	Machinery for manufacturing semolina and flour.
BAILEY, DAVIS WATERMAN -	3672	18th Dec. 1869	A new process of laying composite pavements for streets, etc.
BAILEY, RICHARD - -	1537	19th May 1869	An improved method of spinning or twisting two or more ends of yarn and simultaneously twisting the same into one thread.
BAILEY, WILLIAM - -	1974	30th June 1869	Improvements in cutting and slicing machinery and in adjustable feed apparatus therefor.
BAILLIE, JONATHAN ROBERT -	907	25th March 1869	Waggons for carrying coal, coke, ballast and other like goods and materials.
BAIN, WILLIAM PELLEW -	2109	13th July 1869	Sails for ships and vessels.
BAINES, WILLIAM - -	2649	8th Sept. 1869	Apparatus for ensuring safety to railway trains by controlling the signals and switches, and by disconnecting and stopping the carriages when requisite to avoid accident.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BAINEN, WILLIAM - - -	3574	10th Dec. 1869	Apparatus for actuating and controlling railway signals and switches, and for working railway turntables.
BAIRD, AUGUSTUS FRASER -	987	31st March 1869	Earth closets and urinals.
BAKER, FREDERICK - - -	900	24th March 1869	Means and apparatus for locking and unlocking railway point and signal levers.
BAKER, FREDERICK - - -	2066	9th July 1869	Means and apparatus for opening, closing and securing railway level-crossing and other gates.
BAKER, THOMAS - - -	702	8th March 1869	Umbrellas, sunshades and parasols.
BAKER, THOMAS - - -	911	25th March 1869	Fire-escapes.
BAKER, VALENTINE - - -	324	3rd Feb. 1869	Vessels for containing hot liquids.
BAKEWELL, FREDERICK COL- [LIER.	1831	15th June 1869	Machinery and apparatus for letter printing. (Communicated by William Haslet Williams and John William Kellberg.)
BALBIENIE, JOHN, M.D., M.A.	30	5th Jan. 1869	A new or improved apparatus for inhaling vapours, medicated air or gases.
BALDWIN, AUSTIN - - -	816	17th March 1869	An improved safety hook for harness and other purposes. (Patented by Henry Starr.)
BALDWIN, NATHAN ADOLPHUS	1108	10th April 1869	An improved stitch for sewing or stitching together straw, braid or similar articles and machinery for making the same. (Patented by Edward Thomas Hughes.)
BALDWIN, NATHAN ADOLPHUS	2465	18th Aug. 1869	Improvements in the manufacture of boots and shoes, and in machinery or apparatus employed therein. (Patented by Edward Thomas Hughes.)
BALDWIN, NATHAN ADOLPHUS	2468	18th Aug. 1869	Looms for weaving. (Patented by Edward Thomas Hughes.)
BALISTRINI, PIER ALBERTO -	2177	19th July 1869	Cables for the transmission of electric currents. (Patented by Alexander Melville Clark.)
BALL, JAMES - - - -	3278	13th Nov. 1869	Manufacture of sheep shears.
BALLANTYNE, JOHN - - -	3566	9th Dec. 1869	Improvements in the manufacture of yarns or threads and in the mechanism employed therefor.
BALLARD, LEWIS MORTIMER -	1678	31st May 1869	A novel device for locking corks or stoppers in bottles and other necked vessels. (Patented by William Edward Newton.)
BALLOU, RUSSELL ARNOLD -	3564	9th Dec. 1869	Fire-resisting safes, steam-boilers, pipes or various other articles liable to exposure to heat. (Communicated by John Pevear Greely.)
BALLYHQUE, JOSEPH ATHÉ- NIAS PHILIPPE AUGUSTE DE CANTILLON DE.	11	2nd Jan. 1869	Improvements in certain vehicles commonly known as "velocipedes." (Patented by John Henry Johnson.)
BALM, JONAS PRIESTLEY -	1346	1st May 1869	Worsted spinning frames.
BALMAIN, WILLIAM HENRY -	1059	7th April 1869	Preparation of certain oxidising agents and the use of such agents for the preparation of chlorine for bleaching, for yielding oxygen, and for other useful purposes.
BANG, IVAR AXEL FERDINAND	1483	14th May 1869	An improvement in liquids for the lubrication of sheep's or other wool or other animal textile fibrous materials.
BANKS, ALFRED WERN - - -	1544	19th May 1869	Velocipedes and other like vehicles.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BANKS, JOHN HENRY - -	1862	16th June 1869	Convertible desks or benches such as are used for schools, churches and other similar purposes.
BANKS, JOSEPH EDMUND -	1287	26th April 1869	An improved reversible parasol. (Patented by Alfred Vincent Newton.)
BANKS, LANGRISHE FYERS -	1987	1st July 1869	Markers for the game of croquet.
BANNEHR, JAMES - - -	2085	10th July 1869	Improvements in means or apparatus for drying, airing and warming woven fabrics, bottles and other articles, and for indicating the presence of moisture therein and in bedding.
BANNEHR, JAMES - - -	3756	28th Dec. 1869	Improvements in the manufacture and purification of gas, and in the utilization of waste and bye-products of gasworks.
BANVILLE, ALFRED DE - -	2394	10th Aug. 1869	An improved match-box candlestick. (Patented by Felix Mazet.)
BAPTY, JOHN - - - -	2329	3rd Aug. 1869	A new and useful improvement in mechanism for spinning wool or other fibrous matters. (Communicated by Robert Loudon Walker.)
BAPTY, JOHN - - - -	2586	1st Sept. 1869	Improved machinery for combing silk and other fibrous materials.
BARBER, SAMUEL - - -	3007	15th Oct. 1869	Improved means of and apparatus for the propulsion and steering of navigable vessels.
BARBERON, ALPHONSE PHILÉ- [MON ADRIEN.	2626	6th Sept. 1869	Velocipedes. (Patented by William Robert Lake.)
BARBOUR, JAMES - - -	868	22nd March 1869	Improvements in transmitting rotary motion applicable specially to machinery for preparing and spinning flax and other fibrous substances.
BARBOUR, WILLIAM - - -	2996	14th Oct. 1869	Improvements in the arrangement of stage lights and in shades for covering or protecting the same.
BARCLAY, ANDREW - - -	312	2nd Feb. 1869	Improvements in ejector condensers and in exhausting liquids and fluids from condensers and other chambers.
BARCLAY, ANDREW - - -	954	30th March 1869	Steam-boilers or generators.
BARCLAY, ANDREW - - -	1599	24th May 1869	Improvements in apparatus for injecting and ejecting liquids or fluids, ejector-condensers, blow-through-condensers and in mechanism connected therewith.
BARCLAY, ANDREW - - -	1986	1st July 1869	Motive-power engines.
BARCLAY, ANDREW - - -	3432	27th Nov. 1869	Improvements in condensers and in ejecting or withdrawing liquids and fluids therefrom, and in apparatus connected therewith.
BARCROFT, EDWARD - - -	183	20th Jan. 1869	Construction of cocks, taps or valves for controlling the flow of water or other liquids.
BARCROFT, HENRY - - -	253	27th Jan. 1869	Improvements in the manufacture of damasks and other similar materials, and in the machinery therefor.
BARDOUX, FELIX - - -	2299	31st July 1869	Process of reproducing on wood all engravings through aqua fortis.
BARDY, CHARLES - - -	2818	28th Sept. 1869	The production of a new or improved green colouring matter for dyeing and printing. (Patented by Charles Denton Abel.)

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ALPHABETICAL INDEX OF PATENTEES

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BARFF, FREDERICK SETTLE -	2849	1st Oct. 1869	Absorbing and utilizing the noxious vapours and gases arising from locomotive engine and other furnaces.
BARKER, CHARLES MATHEW	1228	21st April 1869	Steam generators.
BARKER, DAVID - - -	2413	12th Aug. 1869	Manufacture of artificial fuel.
BARKER, DAVID - - -	3417	26th Nov. 1869	Manufacture of varnish and varnish paints.
BARKER, EDWARD DUNNING -	587	25th Feb. 1869	Apparatus for actuating railway breaks.
BARKER, ISAIAH - - -	2275	27th July 1869	Manufacture of coffered spades and shovels.
BARKER, JOHN - - -	727	9th March 1869	Preserving animal substances, fruits and other substances made from corn, grain or other vegetable matter.
BARKER, LYCIAS - - -	497	18th Feb. 1869	Looms for weaving.
BARKER, SILAS - - -	3118	27th Oct. 1869	Manufacture of sheet-iron. (Patented by William Robert Lake.)
BARLOW, EDWARD - - -	1308	28th April 1869	Machinery for winding yarns or threads on bobbins.
BARLOW, HENRY BERNOULLI -	1049	7th April 1869	Construction of expanding caskets for jewels and other articles. (Communicated by Jules Mathieu.)
BARLOW, HENRY BERNOULLI -	1482	14th May 1869	Cases for bottles and glass or other cups. (Communicated by Jules Mathieu.)
BARLOW, HENRY BERNOULLI -	2452	17th Aug. 1869	Apparatus for dressing or preparing hides and for other purposes. (Communicated by Henry Dorel.)
BARLOW, HENRY BERNOULLI -	2639	8th Sept. 1869	An improved knitting machine. (Communicated by Charles Albert Shaw and Jonas Hinkley.)
BARLOW, HENRY BERNOULLI -	3121	28th Oct. 1869	Certain improvements in knitting machines. (Communicated by Edouard Tailbouis and Ambroise Reuevey.)
BARLOW, HENRY BERNOULLI, [junior.]	2701	16th Sept. 1869	Apparatus for preventing the incrustation and the accumulation of sediment in steam-boilers. (Communicated by Carl Forster, junior.)
BARLOW, JAMES - - -	2497	21st Aug. 1869	Manufacture of toilet quilts, table-covers and other similar fabrics.
BARLOW, JAMES - - -	3609	14th Dec. 1869	Certain improvements in looms for weaving.
BARNES, GEORGE - - -	1935	25th June 1869	Certain improvements applicable to carding-engines.
BARNES, THOMAS - - -	2238	22nd July 1869	Treatment of coal for the removal of the sulphur compounds contained therein.
BARNETT, JAMES - - -	3578	11th Dec. 1869	Improvements in fuel for heating and warming and in non-conducting material.
BARNETT, JOHN - - -	2115	13th July 1869	Breech-loading fire-arms. (Communicated by Albert Bernard Zieschang and Frederick Louis Hugo Schmidt.)
BARNETT, PATRICK MOIR -	99	13th Jan. 1869	Fixing and securing wooden keys in railway chairs.
BARON, GEORGES LE - -	622	1st March 1869	Improvements in breech-loading fire-arms and in cartridges. (Patented by William Edward Gedge.)
BARR, ALEXANDER - - -	3601	13th Dec. 1869	Apparatus for blowing organs.
BARRE, ARMAND CHARLES -	1209	20th April 1869	An improved water meter. (Patented by William Edward Gedge.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BARRETT, OSMAN - - -	1689	1st June 1869	Manufacture of mortar for building purposes.
BARROW, FREDERICK AUGUS- [TUS.	1632	27th May 1869	Purifying or bleaching mineral oils.
BARRS, WILLIAM - - -	3652	17th Dec. 1869	Manufacture of elastic webbing.
BARRY, PATRICK - - -	1353	3rd May 1869	An improved mode of and means for delivering sheets of paper to the feeding apparatus of a printing machine.
BARTHOLOMEW, ALEXANDER -	493	18th Feb. 1869	Apparatus for regulating the opening of sliding windows.
BARTHOLOMEW, EUGENE [GEORGE.	1627	26th May 1869	Construction and arrangements of electrical apparatus.
BARTHOLOMEW, EUGENE [GEORGE.	2534	26th Aug. 1869	Lighting and extinguishing gas lamps.
BARTLE, FRANCIS - - -	1206	20th April 1869	Apparatus for dressing or washing tin ores and other minerals.
BARTLEET, ROBERT SMITH -	1671	31st May 1869	Needle cases or needle holders. (Communicated by Charles Jüngermann.)
BARTLEET, ROBERT SMITH -	3035	18th Oct. 1869	Cases for the holding of needles and other articles. (Communicated by Charles Jüngermann.)
BARTLETT, EDWARD - - -	271	28th Jan. 1869	An improved rotatory engine. (Patented by Alexander Browne.)
BARTLETT, HENRY CRICHELL	773	13th March 1869	Paper making.
BARTON, JAMES - - -	520	19th Feb. 1869	Improved mode of and means for heating water for supplying steam-boilers and other purposes.
BARTRAM, WILLIAM - - -	1963	29th June 1869	Apparatus for filling and closing cartridges.
BARTRAM, WILLIAM - - -	1984	1st July 1869	A new or improved apparatus for filling cartridges.
BASFORD, WILLIAM - - -	453	13th Feb. 1869	Improvements in the manufacture of bricks and tiles and in moulds for the same.
BASTET, LOUIS - - -	2160	17th July 1869	Electro-magnetic engines. (Patented by Henry Edward Newton.)
BASTET, LOUIS - - -	3780	31st Dec. 1869	Electro-magnetic engines. (Patented by Henry Edward Newton.)
BASTOW, JOHN - - -	1833	15th June 1869	Bleaching yarns, threads and woven fabrics.
BATCHELAR, ARTHUR - - -	13	2nd Jan. 1869	Kilns for burning bricks, tiles, pottery, lime, cement and other similar articles.
BATCHELDER, JOHN MONTGO- [MERY.	1136	13th April 1869	Machinery or apparatus for making compound telegraph wire or conductors. (Patented by John Henry Johnson.)
BATCHELOR, VALENTINE RUM- [NEY.	1491	15th May 1869	Improved arrangements for giving motion to wheels specially applicable for the propulsion of hand-power carriages.
BATE, HENRY - - -	322	2nd Feb. 1869	A new or improved top.
BATE, JOHN - - -	964	31st March 1869	Certain improvements in lawn mowing machines.
BATE, JOHN - - -	1204	20th April 1869	An improved apparatus for sweeping carpets, floors, lawns and other surfaces.
BATEMAN, SAMUEL - - -	25	5th Jan. 1869	Paddle wheels.
BATES, CHRISTIANA ANN -	2093	12th July 1869	Apparatus to be applied to the mouths or openings of letter-boxes to prevent letters being stolen therefrom.
BATEY, JAMES NORRIS - -	2883	5th Oct. 1869	Hemmers for sewing-machines.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BATH, JOHN - - -	948	30th March 1869	Construction of sliding or telescopic pencil cases adapted also for pens.
BATH, JOHN - - -	997	2nd April 1869	An improved printing and copying or repeating letter press or machine.
BATHGATE, HENRY - -	1835	15th June 1869	Improved apparatus for effecting communication between railway passengers, guards and engine drivers.
BATHGATE, JAMES - - -	749	11th March 1869	Construction of certain parts of gas meters.
BATHO, WILLIAM FOTHERGILL	342	4th Feb. 1869	Improvements in machinery for manufacturing semolina and flour, and in apparatus for producing portions of such machinery.
BATTINSON, GEORGE - -	1394	6th May 1869	Machinery for combing wool and other fibres.
BATTINSON, GEORGE - -	1470	13th May 1869	Machinery for combing wool and other fibres.
BATTINSON, GEORGE - -	3241	10th Nov. 1869	Machinery for combing wool, cotton, flax and other fibrous substances.
BATTINSON, ISAAC - - -	1394	6th May 1869	Machinery for combing wool and other fibres.
BATTINSON, ISAAC - - -	1470	13th May 1869	Machinery for combing wool and other fibres.
BATTINSON, ISAAC - - -	3241	10th Nov. 1869	Machinery for combing wool, cotton, flax and other fibrous substances.
BATTYE, JOHN SCOTT - -	3632	15th Dec. 1869	Mechanism for spinning woollen and other yarns.
BAUER, FREDERIC - - -	1319	28th April 1869	Construction of pianofortes and other stringed instruments. (Patented by William Edward Gedge.)
BAUERRICHTER, HENRY - -	1886	19th June 1869	Certain improvements in the construction of show-cases and fancy boxes.
BAUGH, BENJAMIN - - -	2938	9th Oct. 1869	Ornamenting bricks, building-blocks and roofing and other tiles.
BAUMANN, ALEXANDER - -	73	11th Jan. 1869	Construction of hydraulic travelling cranes.
BAÜNSCHIEDT, CHARLES - -	173	19th Jan. 1869	A new or improved instrument to be used in the treatment of rheumatism and other diseases.
BAUR, JULIUS - - -	2501	21st Aug. 1869	Manufacture of steel.
BAXENDEN, RICHARD - - -	200	22nd Jan. 1869	Looms for weaving.
BAXTER, WILLIAM HENRY - -	3733	24th Dec. 1869	Machinery or apparatus for weighing or measuring corn and other substances.
BAYLEY, JOHN - - -	2680	14th Sept. 1869	Machinery for preparing, spinning, twisting and doubling cotton and other fibrous materials.
BAYLISS, MOSES - - -	3340	19th Nov. 1869	Certain improved means for making or producing cast-iron earth screws for the lower parts of fence, telegraph and other posts or supports, and which said improvements are also applicable for other purposes.
BAYLISS, WILLIAM - - -	2096	12th July 1869	Iron vermin-proof rick stands.
BAYLISS, WILLIAM - - -	3340	19th Nov. 1869	Certain improved means for making or producing cast-iron earth screws for the lower parts of fence, telegraph and other posts or supports, and which said improvements are also applicable for other purposes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BAYNE, WALTER - - -	995	1st April 1869	Carpenter's and joiner's planes.
BAZIN, ERNEST - - -	1358	3rd May 1869	Improvements in spinning hemp, flax and other fibrous substances and in apparatus to be employed therefor. (Patented by Bristow Hunt.)
BAZIN, ERNEST - - -	2454	17th Aug. 1869	Improved apparatus for spinning yarns of flax, hemp, tow and other textile materials. (Patented by Bristow Hunt.)
BAZIN, ERNEST - - -	3317	17th Nov. 1869	Improvements in spinning looms and in the spindles employed therein.
BAZIN, LEOPOLD FRÉDÉRIC -	2321	3rd Aug. 1869	Improved mechanism for converting reciprocating rectilinear motion into rotary motion, and for converting rotary motion into reciprocating rectilinear motion. (Patented by Charles Denton Abel.)
BEACH, ALFRED ELY - - -	3229	9th Nov. 1869	Improvements in the transportation of letters, parcels and other freight by atmospheric pressure, and in apparatus connected therewith. (Patented by Alexander Melville Clark.)
BEALES, JOSEPH - - -	1612	26th May 1869	Tools for cutting glass and other vitreous substances. (Patented by Martin Benson.)
BEANES, EDWARD - - -	1121	12th April 1869	Brewing.
BEANES, EDWARD - - -	2322	3rd Aug. 1869	An improved process for re-working wrought iron.
BEANES, EDWARD - - -	2345	5th Aug. 1869	Preserving articles of food.
BEARD, JOSEPH - - -	2081	10th July 1869	Pumps.
BEATTIE, JOSEPH - - -	213	22nd Jan. 1869	Buffing apparatus for railway carriages.
BEATTIE, WILLIAM GEORGE -	359	5th Feb. 1869	Bearing springs of carriages, trucks and engines used on railways and common roads.
BEAUFILS, NICOLAS, LOUIS -	1921	23rd June 1869	An improved anti-explosive or safety lamp applicable for mining and general purposes. (Patented by Alexander Melville Clark.)
BEAUMONT, EDOUARD DE -	2159	17th July 1869	Breech-loading fire-arms. (Patented by Henry Edward Newton.)
BECKER, HUGO - - -	2915	7th Oct. 1869	Improved signalling apparatus for use in private or public buildings. (Patented by Hermann Schildberg.)
BECKER, JULES - - -	3065	21st Oct. 1869	An improved apparatus for stopping bottles.
BECKETT, JAMES - - -	986	1st April 1869	An improved self-acting break for railway carriages.
BECKETT, JAMES - - -	2310	31st July 1869	Self-acting breaks for railway carriages.
BECKWITH, JOHN HENRY -	1385	5th May 1869	Slide valves and valve gear to piston valves for steam-engines.
BECKWITH, THOMAS - - -	2422	13th Aug. 1869	Reaping and mowing machines.
BÉDÉ, EUGÈNE - - -	2983	14th Oct. 1869	A novel mode of putting up or incasing packets of needles. (Patented by William Edward Gedge.)
BEDELL, GEORGE - - -	1791	10th June 1869	An improved apparatus for readjusting railway locomotives, carriages and other rolling stock thrown off the metals of railways and tramways. (Communicated by Robert Bustin.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BEDUCHAUD, JACQUES, MARIE [BENONI.]	694	8th March 1869	Improvements in purifying and clarifying all sorts of oils, whether mineral, vegetable or animal, and in apparatus therefor. (Patented by Louis Maria Ruiz.)
BEECROFT, ROBERT - -	1888	15th June 1869	Machinery for combing wool or other fibrous substances.
BEELEY, THOMAS - -	758	11th March 1869	Apparatus for welding and flanging plates and tubes used in the manufacture of boilers and other constructions.
BEESEY, JAMES - - -	1628	27th May 1869	Boilers.
BEESEY, LAWRENCE - -	1628	27th May 1869	Boilers.
BEESEY, WILLIAM - - -	1628	27th May 1869	Boilers.
BÈGUE, MARIE-LOUIS ADOLPHE	449	13th Feb. 1869	Improved apparatus for heating applicable to generating steam, cooking food and heating for various other domestic purposes. (Patented by William Edward Newton.)
BELICARD, JULES - - -	2715	18th Sept. 1869	Looms for weaving.
BÉLICARD, JULES - - -	3350	20th Nov. 1869	Manufacture of metal healds for weaving.
BELIER, CHARLES - - -	2720	18th Sept. 1869	An improved mode of manufacturing binding tapes. (Communicated by Henri Augustin Joseph Lauwick.)
BELL, BENJAMIN - - -	1896	21st June 1869	Mode of applying or affixing wood and metal sheathing to iron, steel or wooden ships and other floating structures, and also in such sheathing.
BELL, FRANCIS - - -	746	11th March 1869	A new or improved method of and apparatus or machinery for condensing and utilizing steam or other vapors arising from the boiling of liquids, wort and other ingredients in breweries, distilleries and other places.
BELLIS, WILLIAM - - -	384	8th Feb. 1869	Steam-engine governors. (Patented by John Henry Johnson.)
BEMELMANS, EUGÈNE - -	1704	2nd June 1869	An improved apparatus for working the signals and switches or points of railways.
BENDER, RICHARD WILLIAM -	333	3rd Feb. 1869	Improved means and apparatus for filtering saccharine solutions and syrups. (Patented by Walter Lister.)
BENNETT, JAMES HENRY -	818	17th March 1869	Steam-engines and boilers.
BENNETT, JOHN EMIL - -	3087	23rd Oct. 1869	Propelling ships and other navigable vessels.
BENNETT, JOSEPH - - -	3087	23rd Oct. 1869	Propelling ships and other navigable vessels.
BENNETT, SOLOMON - - -	3124	28th Oct. 1869	Obtaining valuable products from the waste liquors run off from tanneries.
BENNETT, WILLIAM - - -	1393	6th May 1869	Kitchen ranges.
BENNETT, WILLIAM - - -	2964	12th Oct. 1869	Kitchen ranges.
BENNETT, WILLIAM - - -	3478	1st Dec. 1869	Improvements in kitchen ranges and fire-places or stoves for cooking and heating, and in apparatus connected therewith.
BENNIE, GEORGE - - -	2803	27th Sept. 1869	Improvements in distilling oils from minerals and in apparatus therefor.
BENSON, MARTIN - - -	1612	26th May 1869	Tools for cutting glass and other vitreous substances. (Communicated by Joseph Beales, Wendel Thornton Davis and Austin De Wolf.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BENSON, MARTIN - -	1828	15th June 1869	Machines for planing wood. (Communicated by John Richards.)
BENSON, MARTIN - -	1829	15th June 1869	Mortising machines for making mortises in all kinds of wood and joinery. (Communicated by John Richards.)
BENSON, MARTIN - -	1830	15th June 1869	Band-sawing machinery for sawing wood, iron or other material. (Communicated by John Richards.)
BENSON, MARTIN - -	3260	12th Nov. 1869	Improvements in a machine for dusting brand or separating the flour from the brand after it has undergone the usual process of bolting, and also for cleaning cracked wheat and other grain. (Communicated by William Huntley and Alpheus Babcock.)
BENSON, WILLIAM - -	1523	18th May 1869	Improvements in treating or reducing ores and in the apparatus employed therein.
BENTLEY, JOHN FLOWERS -	416	10th Feb. 1869	Filters.
BENVENUTI, FORTUNÉ FRAN- ÇOIS.	3739	24th Dec. 1869	An improved feeding inkstand.
BERDAN, GENERAL HIRAM -	1530	18th May 1869	Improvements in fire-arms and in metallic cartridges and in apparatus for filling the same. (Patented by John Henry Johnson.)
BERGMÜLLER, ADOPHE DE -	1902	22nd June 1869	Apparatus or machinery for opening and closing gates, doors or barriers, and for actuating semaphore signals by means of electricity. (Patented by Charles Denton Abel.)
BERGUE, CHARLES DE - -	189	20th Jan. 1869	Locomotives and other railway carriages.
BERGUE, CHARLES DE - -	882	23rd March 1869	Improvements in and in apparatus for making holes in metal.
BERGUE, CHARLES DE - -	2135	15th July 1869	Locomotives and other railway carriages. (Partly communicated by Camille Faure.)
BERGUE, CHARLES DE - -	2799	27th Sept. 1869	Improved mode of and apparatus for utilising man's muscular power when employed in driving machinery.
BERNARD, CAMILLE - -	2543	27th Aug. 1869	A novel construction of railway sleeper. (Patented by William Edward Gedge.)
BERNARD, FRANÇOIS - -	2766	23rd Sept. 1869	An improvement in shoes for horses, mules or other analogous hoofed animals, and in apparatus for manufacturing such shoes.
BERNARD, JULIAN - -	2140	15th July 1869	Improvements in smelting and in furnaces, machinery and apparatus connected therewith.
BERNARD, JULIAN - -	2142	15th July 1869	Obtaining and utilizing heat in the operation of smelting.
BERNARD, RICHARD WELLESLEY	3606	13th Dec. 1869	Candle lamps or imitation candles. (Communicated by Casimir Rakowski.)
BERNEY, THOMAS - -	1497	15th May 1869	Improvements in the mounting and working of defensive armour for the protection of ordnance in battery and in ships' fortifications and elsewhere, and in apparatus connected therewith.
BERNIER, JEAN BAPTISTE -	741	11th March 1869	An improvement for the preservation of yeast for manuring purposes.
BERNSTEIN, JOSEPH - -	2168	17th July 1869	Manufacture of umbrella, parasol and walking stick handles.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BEROLZHEIMER, MAX EMAN- [UEL.	2700	15th Sept. 1869	Key guards applicable also to the shanks of knob latches. (Patented by Alexander Melville Clark.)
BEROLZHEIMER, MAX EMAN- [UEL.	2825	28th Sept. 1869	An improved method of and apparatus for preventing alterations of values in monetary instruments. (Patented by William Robert Lake.)
BERTHON, CHARLES SEPTIMUS	2058	8th July 1869	Squares for finding the centre of circles and marking the outlines of regular or irregular figures thereon.
BERTIN, GEORGES JEAN -	670	5th March 1869	An improved process and improved apparatus having for object to preserve from oxydation iron ships and metallic surfaces, or those of copper or iron with which wooden ships are sheathed, also applicable for testing the qualities and the homogeneity of metals. (Patented by William Edward Gedge.)
BERTRAM, GEORGE - -	3433	27th Nov. 1869	Certain improvements in apparatus for straining paper pulp.
BESANÇON, CHARLES - -	2901	6th Oct. 1869	Decoration or ornamentation of metals. (Patented by Bristow Hunt.)
BESLAY, CHARLES - - -	2573	31st Aug. 1869	An improved mode of and apparatus for applying the incompressibility of liquids for imparting the required stiffness to suitable supple bodies for allowing them to be made use of as armatures for building tunnels, submarine constructions, or for divers other useful purposes.
BESSEMER, HENRY - -	586	23rd Feb. 1869	Construction and arrangement of machinery, apparatus and buildings employed in or for the manufacture or production of cast steel and malleable iron from pig or other carburet of iron.
BESSEMER, HENRY - -	1431	10th May 1869	Improvements in the manufacture of malleable iron and steel, and in furnaces and apparatus employed for their fusion and treatment.
BESSEMER, HENRY - -	1432	10th May 1869	Improvements in the construction and mode of working furnaces and apparatus employed in fusing malleable or wrought iron and steel, and pig or other carburets of iron, and obtaining cast steel or homogeneous malleable iron therefrom.
BESSEMER, HENRY - -	1433	10th May 1869	Conversion of fluid crude iron and molten pig or other carburets of iron into fluid homogeneous malleable iron and steel, whether such pig or other crude iron is used alone or is mixed with a portion of malleable or more or less decarburised iron in a solid or fluid state.
BESSEMER, HENRY - -	1434	10th May 1869	Improvements in the treatment of crude or pig iron and other carburets of iron, and in the apparatus employed for such purposes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BESSEMER, HENRY - - -	1435	10th May 1869	Improvements in the construction and mode of working blast furnaces employed for smelting the ores of iron, and in the mode of employing and utilizing the gaseous products of such furnaces, and also in the construction and mode of working blast engines employed to force air into blast and other furnaces.
BESSEMER, HENRY - - -	2397	10th Aug. 1869	Improvements in the methods and apparatus employed in the fusion of metals and metallic alloys, and in founding or casting the same.
BESSEMER, HENRY - - -	3707	22nd Dec. 1869	Improvements in the construction of steam vessels and sailing vessels, and in the means and apparatus employed for lessening or preventing sea-sickness on board such vessels.
BEST, THOMAS - - -	1728	4th June 1869	Manufacture of velocipedes.
BETTELEY, JOSEPH - - -	2673	11th Sept. 1869	Constructing and sheathing ships.
BETTI, GUISEPPE - - -	3347	20th Nov. 1869	Steam-boilers.
BETTISON, WILLIAM - - -	2702	16th Sept. 1869	An improved potters' glaze and seggar wash.
BETTS, WILLIAM - - -	665	4th March 1869	Ornamenting and producing trade marks on capsules.
BETTS, WILLIAM - - -	747	11th March 1869	Manufacture of capsules.
BEVINGTON, THOMAS - - -	3089	23rd Oct. 1869	Improvements in machinery for breaking stone, and ore, part of which improvements are applicable to hammers and pile driving machines and other machines in which weights have to be raised and suddenly dropped.
BEVIS, RESTEL RATSEY - - -	684	6th March 1869	Screw propellers.
BEY, RUSTEM - - -	1120	12th April 1869	An improved railway. (Patented by William Robert Lake.)
BEZIAT, JOSEPH - - -	94	12th Jan. 1869	Construction of velocipedes. (Patented by Clinton Edgcumbe Brooman.)
BIANCHI, BARTHELEMY - - -	3162	1st Nov. 1869	Improvements in the manufacture of cartridges suitable for mining and general purposes, and in the apparatus employed therein.
BICKERTON, JOSEPH - - -	1489	14th May 1869	Lithographic and zincographic cylinder printing machines.
BIDDELL, WILLIAM ADOLPHUS	19	4th Jan. 1869	Manufacture and ornamentation of chandeliers, lamps, lustres and other articles.
BIDDELL, WILLIAM ADOLPHUS	2004	2nd July 1869	Improvements in the manufacture of ornamental articles in glass alone or in combination with other materials, and in the application thereof to various purposes.
BIDDER, SAMUEL PARKER, the [younger.	1002	2nd April 1869	Safety lamps and apparatus employed in connection therewith.
BIDWELL, JAMES - - -	534	20th Feb. 1869	An improved double-jointed but-hinge. (Patented by Benjamin Franklin West.)
BIGELOW, ERASTUS BRIGHAM	2242	23rd July 1869	Harness motion for power looms. (Patented by George Tomlinson Bousfield.)
BIGELOW, ERASTUS BRIGHAM	3772	30th Dec. 1869	Harness operating mechanism for power looms. (Patented by George Tomlinson Bousfield.)

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ALPHABETICAL INDEX OF PATENTEEES

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BIGELOW, TIMOTHY - -	2678	13th Sept. 1869	Improved means for extinguishing fires and watering streets. (Patented by Alfred Vincent Newton.)
BIGGS, JOHN HOWARD WORTH- [INGTON.	2948	9th Oct. 1869	Machinery for joining warp ends.
BIGOT, ROMAIN FRANÇOIS -	1334	30th April 1869	A level with mirror.
BILLIATT, JOHN WILLIAM -	2822	28th Sept. 1869	Elevators for agricultural purposes.
BILLING, ALFRED JOSEPH -	1778	9th June 1869	Roller blind furniture.
BILLINGSLEY, HENRY - -	2718	18th Sept. 1869	Improved means of producing transfers and blocks for lithographic and other printing.
BILLUPS, JONATHAN EDWIN -	424	10th Feb. 1869	Means or apparatus for communication between the passengers, guards and drivers of railway trains.
BILLYEALD, THOMAS - -	467	16th Feb. 1869	Manufacture of nets for ladies' hair.
BINDLEY, JOHN ALLEN - -	1694	1st June 1869	An improved attenuator for union and tuning casks used in brewing.
BINKO, HENRY BOCK - -	439	12th Feb. 1869	Manufacture and application of indigo, carmine and other coloring matters and bleaching agents.
BINTLEY, JOHN THORNTON -	136	16th Jan. 1869	Mode of and apparatus for connecting or joining together the ends of rails in constructing the permanent way of railways.
BINTLEY, JOHN THORNTON -	303	1st Feb. 1869	Billiard tables and bagatelle tables by which balls may be sent or returned to either end thereof otherwise than along the surface.
BIRCH, SAMUEL - - -	1681	31st May 1869	Improvements applicable to handkerchief, glove and other fancy boxes.
BIRCH, WILLIAM - - -	3169	1st Nov. 1869	Certain improvements applicable to sewing-machines.
BIRD, JOHN - - -	320	2nd Feb. 1869	Kilns or ovens for drying and burning bricks and other articles of pottery or earthenware.
BIRKETT, THOMAS - - -	119	14th Jan. 1869	Breech-loading fire-arms.
BISHOP, ELISHA - - -	1783	9th June 1869	Improvements in shears specially applicable to those used for sheep shearing.
BISHOP, SAMUEL - - -	2243	23rd July 1869	Lamps for burning paraffine oil and other hydrocarbon oils.
BLACK, GEORGE - - -	1161	15th April 1869	Agricultural drills for sowing grain and seeds with or without manure, and also for distributing manure.
BLACK, GEORGE - - -	2262	10th Sept. 1869	Agricultural drills for sowing grain and seeds with or without manure, and also for sowing or distributing manure.
BLACK, WALTER SHAW - -	2438	16th Aug. 1869	Machinery for twisting tobacco.
BLACK, WILLIAM - - -	2761	23rd Sept. 1869	Locomotive engines and vehicles intended to run on railways and tramways.
BLACKBEE, ROBERT - - -	270	28th Jan. 1869	An improved pessary.
BLACKBURN, WILLIAM - -	1961	29th June 1869	Improved standards or supports for benches desks and tables.
BLAIR, JOHN - - -	1792	10th June 1869	Manufacture of wadding.
BLAIR, THOMAS SCHOEN- [BERGER.	546	22nd Feb. 1869	Manufacture of iron and steel.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BLAIR, THOMAS SCHOEN- [BERGER.	612	27th Feb. 1869	Means and apparatus or machinery for effecting the mixture of molten cast iron with solid oxides and other bodies.
BLAIR, THOMAS SCHOEN- [BERGER.	2391	10th Aug. 1869	Manufacture of iron and steel.
BLAIR, THOMAS SCHOEN- [BERGER.	2392	10th Aug. 1869	Improvements in the treatment of conglomerates of cast iron and other substances, and in apparatus employed for that purpose.
BLAIR, THOMAS SCHOEN- [BERGER.	2553	28th Aug. 1869	Treating conglomerates of cast iron and other substances.
BLAKE, DAVID - - -	1603	25th May 1869	Producing imitations of and substitutes for wood, ivory, stone and other hard substances applicable to the manufacture of billiard balls and other articles. (Patented by John Henry Johnson.)
BLAKE, DAVID - - -	2510	23rd Aug. 1869	Producing imitations of and substitutes for wood, ivory, stone and other hard substances applicable to the manufacture of billiard balls and other articles. (Patented by John Henry Johnson.)
BLAKE, FRANCIS THOMAS -	1606	25th May 1869	Obtaining motive-power.
BLAKE, JOHN BEZER - -	1347	1st May 1869	Construction of velocipedes.
BLAKE, PERCY ALBERT - -	1143	14th April 1869	An improved safety explosive compound and the apparatus connected with its use.
BLAKE, PERCY ALBERT - -	2500	21st Aug. 1869	A new or improved safety explosive compound or compounds to be used for blasting and other purposes, together with means connected with its use.
BLAKEY, JOHN - - -	2481	19th Aug. 1869	Improved means and apparatus for utilizing waste leather or the small pieces of leather resulting from the cutting out of the several parts for boots and shoes.
BLAMIRES, THOMAS HOWARD	1089	9th April 1869	Machinery or apparatus for receiving and registering or indicating votes at elections.
BLAMIRES, THOMAS HOWARD	2621	6th Sept. 1869	Rubbers for condensers and piecing machines used in the preparation of wool or other fibrous substances.
BLANCHARD, LUCIEN HENRI -	2408	11th Aug. 1869	Manufacture of phosphate of ammonia. (Patented by Alexander Melville Clark.)
BLANCHARD, LUCIEN HENRI -	3645	16th Dec. 1869	Manufacture of superphosphate of lime. (Patented by Alexander Melville Clark.)
BLANCHARD, NATHAN WESTON	3189	3rd Nov. 1869	An improved substitute for curled hair for upholstering and other purposes, and process employed in the manufacture thereof.
BLANCHE, GASPARINE -	878	23rd March 1869	Attaching purses or other articles to the pockets or clothing to prevent loss or robbery.
BLANCHE, C. W. JULIUS, and [Co.	668	5th March 1869	An improved injector. (Patented by Charles Denton Abel.)
BLAND, CHARLES - - -	180	20th Jan. 1869	Improvements in mechanism for bell and clock chimes, such improvements being also applicable to keyed automatic or other musical instruments.
BLANE, GABRIEL NEIL -	2252	24th July 1869	An improved machine for mortising timber.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BLECKMANN, JOHANN HEINRICH [AUGUST.]	1232	21st April 1869	Improvements in breech-loading fire-arms, part of such improvements being also applicable to other fire-arms.
BLETCHER, THOMAS - -	936	27th March 1869	Sewing-machines.
BLEZARD, RICHARD - -	1422	10th May 1869	Apparatus for dressing millstones.
BLISS, JEREMY WELLS -	1849	15th June 1869	An improved mode of and machinery for producing a polished or enamelled surface upon sheet iron. (Patented by William Robert Lake.)
BLISS, WILLIAM HENRY -	1590	22nd May 1869	Arrangement and construction of velocipedes.
BLISH - - - -	3711	22nd Dec. 1869	Apparatus for sharpening the cutters of mowing-machines. (Patented by William McKenzie, Thomas McKenzie and James McKenzie.)
BLOEM, GUSTAV - -	938	29th March 1869	Improvements in breech-loading fire-arms and in cartridges to be used therewith and with other descriptions of breech-loading fire-arms.
BLOMFIELD, JOSEPH - -	1736	4th June 1869	Sewing-machines for the manufacture of boots and shoes and for other purposes.
BLOW, GEORGE WALTER -	1325	29th April 1869	Driving bands for machinery.
BLOW, JOHN GEORGE FORDHAM	1325	29th April 1869	Driving bands for machinery.
BLUMER-ZWEIFEL, PIERRE -	664	4th March 1869	Dyeing and printing with aniline colors. (Patented by John Henry Johnson.)
BLUMER-ZWEIFEL, PIERRE -	2106	20th July 1869	Dyeing and printing. (Patented by John Henry Johnson.)
BLUNDELL, WALTER - -	356	5th Feb. 1869.	Guards or apparatus applicable to chimneys for the prevention of down draught.
BLUNN, WALTER - -	2831	29th Sept. 1869	An improved furnace cistern for melting material from which glass is made, and for keeping the same in working condition during the process of blowing.
BLYDE, JAMES - -	554	22nd Feb. 1869	Scissors or apparatus especially suitable for gathering flowers.
BLYDE, JAMES - -	2441	16th Aug. 1869	Scissors or apparatus especially suitable for gathering flowers and fruit.
BLYTHE, JOHN BENNINGTON -	2962	12th Oct. 1869	Mode and apparatus for vaporizing and burning liquid hydrocarbons for the production of heat in furnaces, and for generating steam.
BOCK, JOHANN CHRISTIAN [AUGUST.]	419	10th Feb. 1869.	Manufacture of stearic and oleic acids. (Patented by Peter Taysen.)
BODART, ALPHONSE - -	2859	2nd Oct. 1869	An improved balance for ascertaining the specific gravity of liquids, also applicable for other purposes.
BODMER, ELISABETH HAFNER [DE.]	2332	4th Aug. 1869	Construction of carriage wheels.
BODMER, JOHN JAMES -	53	7th Jan. 1869	Manufacture of iron and steel.
BODMER, JOHN JAMES -	905	25th March 1869	Improvements in the manufacture of iron and steel and in the apparatus to be employed therein, part of which improvements are also applicable to the treatment of other metals and alloys.
BODMER, JOHN JAMES -	1499	17th May 1869	Fire grates applicable to steam-boiler furnaces and other furnaces.
BODMER, JOHN JAMES -	2694	14th Sept. 1869	Manufacture of iron and steel.

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AND APPLICANTS FOR PATENTS OF INVENTION.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BODMER, LOUIS RUDOLPH -	1499	17th May 1869	Fire grates applicable to steam-boiler furnaces and other furnaces.
BODMER, RUDOLPH - -	1499	17th May 1869	Fire grates applicable to steam-boiler furnaces and other furnaces.
BOEKLIN, REINHOLD - -	1988	1st July 1869	An improved manufacture of nail or spike and machinery for making the same, which machinery is applicable to the forming of bolts and spikes of the ordinary construction and other articles having screw threads, and also to the straightening of shafts rods and pipes. (Patented by Alfred Vincent Newton.)
BOEUF, ANTOINE - -	3570	10th Dec. 1869	Velocipedes. (Patented by William Edward Gedge.)
BOGLER, PHILIPP - -	1183	17th April 1869	An improved lift for raising and lowering merchandize and weights of all descriptions.
BOGLER, PHILIPP - -	1185	17th April 1869	Means and apparatus for regulating or controlling the delivery of tickets at railway stations and other similar places, part of which invention is applicable to telegraphic purposes.
BOGLER, PHILIPP - -	3010	15th Oct. 1869	Improvements in means and apparatus for regulating or controlling the delivery of tickets at railway stations and other similar places, part of which improvements is applicable to telegraphic purposes. (Patented by Edward Thomas Hughes.)
BOGLER, PHILIPP - -	3011	15th Oct. 1869	An improved lift for raising and lowering merchandize and weights of all descriptions. (Patented by Edward Thomas Hughes.)
BOHLKEN, ANTON - -	3231	10th Nov. 1869	Terriers or ground augers.
BOITAL, FABIUS - -	845	19th March 1869	Apparatus for the use of petroleum and other oils and essences for the purpose of heating. (Patented by Clinton Edgcumbe Brooman.)
BOLGER, HORACE LEAR -	2847	1st Oct. 1869	Apparatus for splitting rocks and other masses.
BOLTON, FRANCIS JOHN -	3785	31st Dec. 1869	Treatment of fermented liquors.
BOND, RICHARD - -	2341	5th Aug. 1869	Certain improvements in self-acting temples for looms.
BOND, THOMAS - -	464	16th Feb. 1869	Machinery to be employed in the construction of casks.
BONEHILL, CHRISTOPHER [GEORGE.]	839	19th March 1869	Breech-loading fire-arms.
BONN, JACOB - -	2850	1st Oct. 1869	An improved instrument to be used for ruling lines on paper and other substances.
BONNEVILLE, HENRI ADRIEN	18	4th Jan. 1869	Certain improvements in the process of refining iron and making steel, and in the apparatus used in carrying out said process. (Communicated by Cyrille Jean Caumon (also known as John Absterdam).)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BONNEVILLE, HENRI ADRIEN	23	5th Jan. 1869	A new and improved process for coating all sorts of articles with gold, silver and other metals or mixtures of such metals as may be beaten into thin sheets or coatings. (Communicated by Frederick Volkman.)
BONNEVILLE, HENRI ADRIEN	186	20th Jan. 1869	Improvements in the manufacture of illuminating gas and of sponge by the action of hydrocarbon liquids or fluids on metallic ores, and in the furnaces for melting said sponge and other metals. (Communicated by Cyrille Jean Cassmon (also known as John Absterdam).)
BONNEVILLE, HENRI ADRIEN	187	20th Jan. 1869	Metallic action frames for pianofortes. (Communicated by Theodore Steinway.)
BONNEVILLE, HENRI ADRIEN	374	6th Feb. 1869	A new and improved compound for preparing jelly broth. (Communicated by Charles Julien Desnoiz.)
BONNEVILLE, HENRI ADRIEN	650	3rd March 1869	A new and improved apparatus for doubling stuffs, tissues and such like articles. (Communicated by Félix Delacroix.)
BONNEVILLE, HENRI ADRIEN	672	5th March 1869	A new and improved apparatus for fastening the knots of neckties and other analogous articles. (Communicated by Fritz Spettinagel.)
BONNEVILLE, HENRI ADRIEN	713	9th March 1869	A new sort of porcelain, and a new and improved process for manufacturing the same. (Communicated by Antoinette Vidal.)
BONNEVILLE, HENRI ADRIEN	919	25th March 1869	A new and improved electric clock. (Communicated by Samuel A. Kennedy.)
BONNEVILLE, HENRI ADRIEN	1096	10th April 1869	Certain improvements in sewing-machines and their shuttles, and in attachments to sewing-machines for sewing different seams and fancy stitches. (Communicated by Albin Warth.)
BONNEVILLE, HENRI ADRIEN	1194	19th April 1869	An improved apparatus to manufacture the rims of hats. (Communicated by Jean Prosper Morlot.)
BONNEVILLE, HENRI ADRIEN	1310	28th April 1869	A new and improved means of concentrating the caloric of heated water used for bathing purposes. (Communicated by Clémence d'Estains, widow of Léon De Wailly.)
BONNEVILLE, HENRI ADRIEN	1638	28th May 1869	An improved box for enclosing portraits and photographic cartes. (Communicated by Joseph Münch.)
BONNEVILLE, HENRI ADRIEN	1884	19th June 1869	Compounding and applying certain compounds to render fabrics water repellent. (Communicated by Robert Orpheus Lowrey.)
BONNEVILLE, HENRI ADRIEN	1993	2nd July 1869	A new and improved billiard and bagatelle room convenience. (Communicated by Maurice Gefłowski.)
BONNEVILLE, HENRI ADRIEN	1994	2nd July 1869	A new and improved motive-power. (Communicated by Jean Clunet.)
BONNEVILLE, HENRI ADRIEN	2287	29th July 1869	Weaving looms. (Communicated by Pierre Legrand.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BONNEVILLE, HENRI ADRIEN	2288	29th July 1869	Improvements in weaving looms and in their shuttle boxes. (Communicated by Pierre Legrand.)
BONNEVILLE, HENRI ADRIEN	2445	16th Aug. 1869	Process of charging and discharging fuel in gas retorts or other gas distilling apparatus. (Communicated by Henry Ludovic.)
BONNEVILLE, HENRI ADRIEN	2505	23rd Aug. 1869	A new and useful improvement in machinery for carding and combing wool and other fibrous materials. (Communicated by Celestin Martin.)
BONNEVILLE, HENRI ADRIEN	2655	9th Sept. 1869	Electric batteries. (Communicated by Théophile Chutaux.)
BONNEVILLE, HENRI ADRIEN	2722	18th Sept. 1869	New and improved means for utilizing the waste arising in spinning vegetable fibrous materials. (Communicated by Joseph Eugène Dubourg and Lucien Geofroy.)
BONNEVILLE, HENRI ADRIEN	2789	25th Sept. 1869	A new and improved Greek-fire arm. (Communicated by Wilhelm Rabback.)
BONNEVILLE, HENRI ADRIEN	3075	22nd Oct. 1869	Sewing-machines. (Communicated by Jean Sabot.)
BONNEVILLE, HENRI ADRIEN	3117	27th Oct. 1869	An improved box for enclosing portraits and photographic cartes. (Communicated by Joseph Munch.)
BONNEVILLE, HENRI ADRIEN	3296	15th Nov. 1869	Means and machinery for clipping horses and other animals. (Communicated by Charles Courtois.)
BONNEVILLE, HENRI ADRIEN	3376	23rd Nov. 1869	A new and improved steam-boiler supply cock. (Communicated by Alfred Dervaux.)
BONNEVILLE, HENRI ADRIEN	3377	23rd Nov. 1869	Electro-metallurgy. (Communicated by Théophile Chutaux.)
BONNEVILLE, HENRI ADRIEN	3378	23rd Nov. 1869	Electric batteries. (Communicated by Théophile Chutaux.)
BONNOT, CAMILLE EUGÈNE -	1774	9th June 1869	An improved machine or apparatus for treating leather to render it suitable for making straps, belts or bands. (Patented by William Edward Gedge.)
BONSER, WILLIAM JAMES -	2982	14th Oct. 1869	Apparatus to be used for feeding and watering cattle in railway trucks.
BOOKWALTER, JOHN WESLEY	718	9th March 1869	Improvements in turbine wheels and in apparatus connected with the same. (Patented by William Robert Lake.)
BOOTH, EDWARD - - -	824	18th March 1869	Improvements in mechanism or apparatus for regulating the admission of air to steam-boiler and other furnaces arranged for consuming smoke and economizing fuel.
BOOTH, GEORGE - - -	3602	13th Dec. 1869	Machinery to be employed for cutting and boring metals.
BOOTH, JAMES - - -	860	22nd March 1869	Indexes of account books and other books.
BOOTH, JAMES - - -	2336	4th Aug. 1869	A new or improved textile fabric.
BOOTH, JONATHAN LAW -	3521	6th Dec. 1869	Manufacture of rails for railroads.
BOOTH, JOSEPH - - -	3195	4th Nov. 1869	Improvements in the modes of rolling or reducing metal, and in the arrangement of machinery for effecting such rolling or reducing.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BORGEN, ADOLPH EMIL - -	364	5th Feb. 1869	A process for the direct decomposition of neutral fatty substances for the manufacture of stearine. (Patented by Alexander Browne.)
BORGNET, ALFRED - - -	1243	22nd April 1869	An improved composition to be employed as a paint.
BORGNET, ALFRED - - -	1244	22nd April 1869	Manufacture of paint.
BORN, GUSTAVUS EDWIN -	3729	24th Dec. 1869	Loaf-sugar cutting machines. (Communicated by Anton Zeeden.)
BOSS, MARK - - - -	1495	15th May 1869	Improvements in embossing, printing, enamelling and ornamenting glass, metal, wood, canvass or other woven prepared fabrics or other substances, and the preparation of the material or materials and ingredients employed therein and machinery or apparatus appertaining to a part thereof.
BOSTEL, DANIEL THOMAS -	2277	27th July 1869	Improvements in what are known as dry earth closets.
BOSTOCK, THOMAS - - -	1314	28th April 1869	An improved application or method of applying elastic fabrics in the manufacture of boots and shoes.
BOSTON SHOE, &C. COMPANY -	463	16th Feb. 1869	Devices for lacing and buttoning boots and shoes. (Patented by Sumner Shaw.)
BOTTOMLEY, HENRY - - -	926	27th March 1869	Looms for weaving.
BOTTOMLEY, JOHN - - -	1621	26th May 1869	Means or apparatus for obtaining motive-power.
BOTTOMLEY, JOHN - - -	3056	20th Oct. 1869	Carriages.
BOTTOMLEY, JOHN - - -	3366	22nd Nov. 1869	Spinning fibrous substances.
BOTTOMLEY, JOSEPH - - -	3031	18th Oct. 1869	Machinery for fulling or milling woollen and other woven or felted fabrics.
BOTTOMLEY, JOSEPH - - -	3032	18th Oct. 1869	Machinery for washing and scouring woollen and other woven or felted fabrics.
BOTTOMLEY, SAMUEL - - -	145	16th Jan. 1869	Couplings of rollers for cotton, silk, woollen, worsted and other machinery.
BOTTOMLEY, WILLIAM - - -	145	16th Jan. 1869	Couplings of rollers for cotton, silk, woollen, worsted and other machinery.
BOTTOMLEY, WILLIAM - - -	1837	15th June 1869	Footsteps, steps or bearings for the spindles and shafts of various machinery.
BOTTOMLEY, WILLIAM - - -	3031	18th Oct. 1869	Machinery for fulling or milling woollen and other woven or felted fabrics.
BOTTOMLEY, WILLIAM - - -	3032	18th Oct. 1869	Machinery for washing and scouring woollen and other woven or felted fabrics.
BOTTUM, JAMES MORGAN -	2133	15th July 1869	An improved process and apparatus for annealing metals. (Patented by Benjamin Joseph Barnard Mills.)
BOUCHOT, DOMINIQUE JULES -	3275	13th Nov. 1869	An improved machine for cutting, drilling and shaping wood and metals. (Patented by William Edward Gedge.)
BOULDERSON, WILLIAM - -	2800	27th Sept. 1869	Coverings for the head.
BOURCHANI, PIERRE - - -	1195	19th April 1869	Construction of hydraulic barometrical apparatus for raising beer, wine and other liquids.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BOURGE, JEAN BAPTISTE -	3693	21st Dec. 1869	Improved machinery for shearing and cleansing woven fabrics. (Patented by William Edward Gedge.)
BOURGINE, EDMOND JEAN -	67	9th Jan. 1869	Improvements in the manufacture and more particularly in the closing of tins or boxes for preserving provisions and for other uses, together with improved machinery or apparatus for effecting the same. (Patented by William Edward Gedge.)
BOURN, AUGUSTUS OSBORN -	844	19th March 1869	Waterproof overshoes. (Patented by William Robert Lake.)
BOURNE, JAMES - - -	3367	22nd Nov. 1869	Gauges for gauging the water in steam-boilers and for other like purposes.
BOURNE, JOHN - - -	143	11th Jan. 1869	Propelling vessels.
BOURNE, JOHN - - -	3705	22nd Dec. 1869	Mode of and apparatus for the production of heat and the generation and application of motive-power derived therefrom.
BOURNE, THOMAS - - -	1871	18th June 1869	Velocipedes.
BOUSFIELD, EDWARD TENNEY	3060	20th Oct. 1869	Construction of steam-boilers.
BOUSFIELD, EDWARD TENNEY	3437	27th Nov. 1869	Apparatus for cutting standing crops and collecting the same when cut.
BOUSFIELD, EDWARD TENNEY	3770	30th Dec. 1869	Steam-boilers.
BOUSFIELD, GEORGE TOMLIN- [SON.]	874	22nd March 1869	Machinery for felting felt cloths. (Communicated by John Thomas Waring.)
BOUSFIELD, GEORGE TOMLIN- [SON.]	946	30th March 1869	Sewing-machines. (Communicated by James Alford House and Henry Alonzo House.)
BOUSFIELD, GEORGE TOMLIN- [SON.]	1033	6th April 1869	Improvements in the manufacture of paper and in sizing therefor. (Communicated by Zenas Crane Warren.)
BOUSFIELD, GEORGE TOMLIN- [SON.]	1034	6th April 1869	Construction of shafts and other parts of carriages. (Communicated by Edward Fievet.)
BOUSFIELD, GEORGE TOMLIN- [SON.]	1178	16th April 1869	Improvements in the manufacture of heavy hydrocarbon oils and in apparatus used therein. (Communicated by Joshua Merrill.)
BOUSFIELD, GEORGE TOMLIN- [SON.]	1251	23rd April 1869	Sheep-washing apparatus. (Communicated by William Wright and Henry Dale Edwards.)
BOUSFIELD, GEORGE TOMLIN- [SON.]	1400	6th May 1869	Suspenders or braces. (Communicated by Thomas Jefferson Flagg.)
BOUSFIELD, GEORGE TOMLIN- [SON.]	1488	14th May 1869	Apparatus for lifting building blocks of stone, concrete or other material, and for disengaging such blocks from the lifting apparatus. (Communicated by Darnton Hutton.)
BOUSFIELD, GEORGE TOMLIN- [SON.]	1586	22nd May 1869	Machinery for casting iron. (Communicated by James Abercrombie Burden.)
BOUSFIELD, GEORGE TOMLIN- [SON.]	2242	23rd July 1869	Harness motion for power looms. (Communicated by Erastus Brigham Bigelow.)
BOUSFIELD, GEORGE TOMLIN- [SON.]	2807	27th Sept. 1869	Manufacture of sized paper. (Communicated by Henry Carellon Hulbert and Zenas Crane Warren.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BOUSFIELD, GEORGE TOMLIN- [SON.	3675	18th Dec. 1869	Treatment of aromatic secondary monamines for obtaining coloring matter. (Communicated by Adam Charles Girard and Georges Ernest Camille de Laire.)
BOUSFIELD, GEORGE TOMLIN- [SON.	3772	30th Dec. 1869	Harness operating mechanism for power looms. (Communicated by Erastus Brigham Bigelow.)
BOUDET, THOMAS CHARLES -	3043	19th Oct. 1869	Improvements in the construction of bridges and in apparatus for the purpose. (Patented by Michael Henry.)
BOUQUILL, JULES LEOPOLD [ROMUALD.	3452	29th Nov. 1869	Improvements in obtaining motive-power and in apparatus employed therein. (Patented by John Clayton Mewburn.)
BOWATER, ALFRED - -	3111	27th Oct. 1869	An improved machine for rolling or shaping metals.
BOWEN, EDWARD CHARLES -	1577	21st May 1869	An improved machine for shearing, punching, bending and otherwise working metal and metallic articles. (Patented by William Robert Lake.)
BOWENS, FRANÇOIS DE - -	887	23rd March 1869	Machinery for making match splints and other similar articles.
BOWERS, SYLVESTER - -	1869	17th June 1869	An improved culinary utensil to be used on stoves or ranges for broiling, toasting, baking and other analogous purposes. (Patented by William Robert Lake.)
BOWMAN, JOSEPH - - -	1553	19th May 1869	Fittings for window blinds.
BOWNES, JAMES - - -	1473	13th May 1869	Machinery or apparatus for steaming and compressing tobacco.
BOWRING, ANDREW - - -	1950	26th June 1869	Manufacture of shirt-collars.
BOWYER, HENRY DOWNS -	232	25th Jan. 1869	Manufacture of wheaten flour.
BOWYER, HENRY DOWNS -	489	17th Feb. 1869	Manufacture of wheaten flour.
BOX, JOHN - - - -	273	28th Jan. 1869	An improved method or means for the destruction of burrs or other vegetable or ligneous matters found in wool or hair in its raw or unmanufactured state.
BOYCE, MATTHIAS - - -	133	15th Jan. 1869	Apparatus for scoring at whist and other games.
BOYD, FRANCIS - - - -	1017	3rd April 1869	Certain new and useful improvements in the construction of breech-loading fire-arms. (Communicated by Francis Everett Boyd and Philo Skelton Tyler.)
BOYD, FRANCIS EVERETT -	1017	3rd April 1869	Certain new and useful improvements in the construction of breech-loading fire-arms. (Patented by Francis Boyd.)
BOYD, JOHN - - - -	2210	21st July 1869	Machinery for winding yarn or thread.
BOYD, JOHN - - - -	3507	4th Dec. 1869	Machinery for winding yarn or thread upon conical surfaces.
BOYD, ROBERT - - - -	1975	30th June 1869	Improvements in switches and signals, and in the mode of working the same. (Communicated by Victor Lamquet.)
BOYD, ROBERT - - - -	2232	22nd July 1869	Boilers and furnaces for producing super-heated steam. (Communicated by Alexander Gemmell and Louis Fontaine.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BOYNTON, WILLIAM - -	2285	28th July 1869	Improved apparatus for facilitating the grinding of the knives of harvesting machines. (Patented by Alfred Vincent Newton.)
BRABAZON, WALLOP - -	323	2nd Feb. 1869	An improved iron chain net for oyster dredges.
BRABY, FREDERICK - -	148	16th Jan. 1869	Commercial manufacture of sulphate of ammonia.
BRABY, FREDERICK - -	355	5th Feb. 1869	Treatment and utilization of the waste solution of sulphate of iron resulting from the cleansing of iron surfaces in the process of galvanizing.
BRABY, FREDERICK - -	2482	19th Aug. 1869	Means and apparatus for the manufacture of caustic ammonia and ammoniacal salts.
BRACELIN, WILLIAM - -	1932	24th June 1869	Velocipedes.
BRADBURY, WILLIAM - -	3567	10th Dec. 1869	An improved method of connecting the ends of packing hoops or other metal hoops or bands, and for apparatus employed in connection therewith.
BRADFORD, THOMAS - -	1636	28th May 1869	Construction of drying closets and drying "horses."
BRADLEY, BERNARD - -	310	2nd Feb. 1869	Machinery or apparatus for twisting yarns and other threads of cotton, wool, silk or other fibrous substances.
BRADLEY, BERNARD - -	1923	24th June 1869	Machinery or apparatus for twisting yarns and other threads of cotton, wool, silk or other fibrous substances.
BRADLEY, CHRISTOPHER -	3034	18th Oct. 1869	Wool combing machinery.
BRADLEY, MICAH GEDLING -	310	2nd Feb. 1869	Machinery or apparatus for twisting yarns and other threads of cotton, wool, silk or other fibrous substances.
BRADLEY, MICAH GEDLING -	1923	24th June 1869	Machinery or apparatus for twisting yarns and other threads of cotton wool, silk, or other fibrous substances.
BRADLEY, STEPHEN ROWE -	2493	20th Aug. 1869	An improvement in the process of manufacturing paint. (Patented by Alfred Vincent Newton.)
BRADLEY, WALTER - -	3034	18th Oct. 1869	Wool combing machinery.
BRADSHAW, AARON - -	3781	31st Dec. 1869	Printing machines.
BRADSHAW, JOSEPH BETTS -	2879	4th Oct. 1869	Manufacture of coopers' hoops.
BRADY, ANTONIO - - -	1203	20th April 1869	Producing pure iron direct from crude iron ore. (Communicated by Edward Brady.)
BRADY, ANTONIO - - -	3058	20th Oct. 1869	Purifying iron or any other metal. (Communicated by Edward Brady.)
BRADY, EDWARD - - -	1203	20th April 1869	Producing pure iron direct from crude iron ore. (Patented by Antonio Brady.)
BRADY, EDWARD - - -	3058	20th Oct. 1869	Purifying iron or any other metal. (Patented by Antonio Brady.)
BRADY, FRANCIS - - -	589	25th Feb. 1869	Switch apparatus for railways.
BRAINARD, EDWIN DWIGHT -	1595	24th May 1869	Ice-houses, store-rooms and refrigerators. (Patented by William Armand Gilbee.)
BRAINARD, EDWIN DWIGHT -	2227	22nd July 1869	An improved method of preserving the aromatic principle of hops. (Patented by William Armand Gilbee.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BRAITHWAITE, HENRY THO- [MAB, M.A.	1669	31st May 1869	Improving two-wheeled velocipedes commonly known as bicycles.
BRAKELL, CHRISTOPHER -	2979	13th Oct. 1869	Fans, pumps and machinery for propelling air, fluids and other substances, by centrifugal force.
BRAKELL, CHRISTOPHER -	3263	12th Nov. 1869	Obtaining and applying motive-power.
BRAMPTON, FREDERICK -	3290	15th Nov. 1869	Locks.
BRAMWELL, FREDERICK JO- [SEPH.	1166	15th April 1869	Steam-engines and furnaces.
BRANDON, ALEXANDER HO- [RACE.	624	1st March 1869	Improvements in metallic cartridges and in the methods of manufacturing the same. (Communicated by Burkley Benjamin Hotchkiss.)
BRANDON, ALEXANDER HO- [RACE.	1066	8th April 1869	An improved composition for joining leather and rendering it impermeable more particularly in its application to driving belts, and in certain improvements in the pulleys for such belts. (Communicated by Edmond Lemaistre.)
BRANDON, ALEXANDER HO- [RACE.	2208	21st July 1869	Improvements in springs applicable to railroad or street cars and other purposes. (Communicated by John Webster Cochran.)
BRANDON, ALEXANDER HO- [RACE.	2399	10th Aug. 1869	Metallic cartridges. (Communicated by Edwin Martin.)
BRANDON, ALEXANDER HO- [RACE.	2659	10th Sept. 1869	Central-fire cartridges for breech-loading fire-arms. (Communicated by George Roth.)
BRANDON, ALEXANDER HO- [RACE.	2942	9th Oct. 1869	Improved means of locomotion. (Communicated by Thomas Laders.)
BRANDON, ALEXANDER HO- [RACE.	3178	2nd Nov. 1869	Improvements in motive-power engines and in the means and mechanism for generating such power. (Communicated by Madam Charles Errani.)
BRANDON, DAVID HUNTER -	2257	24th July 1869	Improvements in metallic cartridges, their primers, and in the methods of manufacturing the same. (Communicated by Burkley Benjamin Hotchkiss.)
BRANDRETH, HENRY -	2332	7th Aug. 1869	An improved arrangement and construction of cutter to be employed in the manufacture of saw handles and other articles of a similar description.
BRASIER, EDWARD -	1094	10th April 1869	Machinery for scutching or cleaning flax or other vegetable fibres.
BRAY, GEORGE -	350	4th Feb. 1869	An improved slip hook.
BRAY, GEORGE -	766	12th March 1869	Connecting and disconnecting apparatus applicable to pole heads for carriages and vehicles and to other uses.
BRAY, HENRY -	1320	28th April 1869	Graining in oil colours.
BRAY, WILSON -	2037	6th July 1869	Refrigerators more especially designed for railway provision carriages.
BREEDEN, JOSEPH -	559	23rd Feb. 1869	Taps or stop-cocks.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BREMME, GUSTAV ALBRECHT [CARL.]	2707	16th Sept. 1869	Machinery for breaking and softening flax and other fibrous materials, which improvements are applicable to other purposes where the same kind of reciprocating rotary motion can be usefully adopted.
BREMME, GUSTAV ALBRECHT [CARL.]	2770	23rd Sept. 1869	Improvements in machinery for untwisting and unlaying threads, yarns, strands, ropes and other spun and twisted materials, which improvements are applicable to twisting, spinning and other analogous purposes.
BRENNAN, EDWARD - - -	1437	11th May 1869	Improvements in machines for polishing threads, braids and woven fabrics, part of which improvements is also applicable to other purposes.
BREWER, C. W. - - -	2118	14th July 1869	Construction of pianoforte hammers. (Patented by Joseph Alexander Horlick.)
BREWER, C. W. - - -	2119	14th July 1869	Construction of pianoforte bridges. (Patented by Joseph Alexander Horlick.)
BREWER, EDWARD GRIFFITH -	451	13th Feb. 1869	Method of and apparatus for constructing and forming metallic joints or seams of tin or other sheet metal. (Communicated by Joseph Le Comte.)
BREWER, EDWARD GRIFFITH -	1740	5th June 1869	Construction and application of breaks to railway-carriage and waggon wheels. (Communicated by William Loomis.)
BREWER, EDWARD GRIFFITH -	1818	14th June 1869	Connecting pipes or tubes. (Communicated by Edmund Smith.)
BRICKNELL, AUGUSTUS LEA -	3551	8th Dec. 1869	Improvements in gates and in the posts or supports for the same.
BRIDGES, JAMES - - -	1823	26th May 1869	An improved lever lock or fastening suitable for various useful purposes.
BRIDGEWATER, HENRY - -	2599	3rd Sept. 1869	Improvements in railway chairs and in the means of securing bridge and flanged rails to their sleepers.
BRIEN, EUGENE O' - - -	1038	6th April 1869	An improved self-feeding, discharging and registering beam-balance for weighing grain and other substances.
BRIEN, EUGENE O' - - -	2806	27th Sept. 1869	An improved self-feeding, discharging and registering beam balance for weighing grain and other substances.
BRIERLY, JAMES (of Millbury)	458	15th Feb. 1869	Mechanism for changing shuttles and shuttle boxes in looms for weaving. (Patented by William Robert Lake.)
BRIERLY, JAMES (of Worcester)	458	15th Feb. 1869	Mechanism for changing shuttles and shuttle boxes in looms for weaving. (Patented by William Robert Lake.)
BRIGGS, JAMES - - -	955	30th March 1869	Looms for weaving.
BRIGGS, RILEY - - -	710	9th March 1869	Improved self-acting apparatus for regulating the internal temperature of rooms in buildings or in other structures which may be warmed or heated by means of steam, hot water or hot air.
BRIGGS, THOMAS - - -	2517	24th Aug. 1869	Improvements applicable to machinery for spinning and doubling cotton and other fibrous materials.
BRIGGS, THOMAS - - -	3107	27th Oct. 1869	Manufacture of materials used for packing and other purposes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BRIGHT, SIR CHARLES TILSTON	2875	4th Oct. 1869	Electric telegraphs.
BRIGHTMAN, CHARLES - -	1867	17th June 1869	Manufacture of shoes and boots.
BRIGHTMAN, EDWARD - -	1867	17th June 1869	Manufacture of shoes and boots.
BRISBANE, ALBERT - -	1798	10th June 1869	An improved method of conveyance and transportation in pneumatic tubes. (Patented by William Armand Gilbee.)
BRISTOL, CHARLES - -	3287	15th Nov. 1869	Improved modes of fastening the knobs or handles of locks and latches of doors and gates, and for other similar purposes. (Patented by Philippe Koch.)
BRITTAİN, JOHN - - -	1600	24th May 1869	Construction of telegraphic instruments.
BRITTEN, BASHLEY - -	731	10th March 1869	Construction of whips.
BROAD, WILLIAM EDWARD -	1013	3rd April 1869	Construction of loose railway wheels and axles.
BROADBENT, JOSEPH KNOWLES	1285	26th April 1869	Arrangement and construction of steam-boiler and other furnaces for economizing fuel and labour, and consuming smoke.
BROADBENT RICHARD - -	2886	2nd Oct. 1869	Gas governors.
BROADFOOT, JOHN - - -	1329	30th April 1869	Lavatories.
BROADHURST, GEORGE - -	418	10th Feb. 1869	Manufacture of double texture cloths suitable for card cloth blankets for calico and other printers, gas bags for railways, and for other purposes.
BROADHURST, GEORGE - -	2334	4th Aug. 1869	Waterproof coats, capes, cloaks and leggings.
BROADWELL, LEWIS WELLS -	176	19th Jan. 1869	Breech-loading guns. (Patented by Clinton Edgumbe Brooman.)
BROCK, WALTER - - -	1128	13th April 1869	Improvements in and connected with slide valves.
BRÖNNER, JULIUS - - -	1642	28th May 1869	An improved method of obtaining anthracen out of asphaltos, that is to say pitch produced from coal tar, and of preparing two coloring matters from the anthracen.
BRÖNNER, JULIUS - - -	2623	6th Sept. 1869	Certain improvements in the treatment of human excrements whereby they are converted into an inodorous, dry and easily portable manure.
BROOK, CYRUS - - -	497	18th Feb. 1869	Looms for weaving.
BROOKE, EDWARD - - -	205	22nd Jan. 1869	Machinery or apparatus for spinning, twisting or doubling and roving wool or other fibrous substances.
BROOKE, JOSEPH - - -	1928	24th June 1869	Certain fabrics technically known as "padding."
BROOKE, JOSEPH - - -	3706	22nd Dec. 1869	An improvement in the manufacture of blankets and other pile fabrics, also druggets and other fabrics with unraised surface.
BROOKE, SAMUEL - - -	316	2nd Feb. 1869	Improvements in or applicable to condenser carding-engines.
BROOKE, SAMUEL - - -	1267	24th April 1869	Improvements in or applicable to machinery or apparatus for carding and otherwise preparing wool or other fibrous substances for spinning.
BROOKE, SAMUEL - - -	1997	2nd July 1869	Improvements in or applicable to machinery or apparatus for carding and otherwise preparing wool or other fibrous substances for spinning.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BROOKES, JOHN - - -	3374	22nd Nov. 1869	Fastenings applicable to ladies' stays, gloves, boots and other similar articles.
BROOKES, WILLIAM - - -	2205	21st July 1869	A new or improved mode of spinning carded wool on small cops ready for weaving. (Communicated by Emile Voigt.)
BROOKES, WILLIAM - - -	3125	28th Oct. 1869	Electro-deposition of nickel. (Communicated by Isaac Adams, junr.)
BROOKES, WILLIAM - - -	3441	27th Nov. 1869	Sewing-machines. (Communicated by Thomas Layton Melone.)
BROOKES, WILLIAM - - -	3515	4th Dec. 1869	Fluid lenses. (Communicated by David Acheson Woodward.)
BROOKES, WILLIAM HENRY -	129	15th Jan. 1869	An improved fastener for doors and windows. (Communicated by John Dickinson.)
BROOKS, HENRY - - -	3064	21st Oct. 1869	An improved metallic cap or cover to glass or other bottles or vessels.
BROOKS, JOHN BOULTBEE -	1888	19th June 1869	Improvements in the sticks of umbrellas and in walking sticks and whips.
BROOMAN, CLINTON EDGCUMBE	94	12th Jan. 1869	Construction of velocipedes. (Communicated by Joseph Beziat.)
BROOMAN, CLINTON EDGCUMBE	176	19th Jan. 1869	Breech-loading guns. (Communicated by Lewis Wells Broadwell.)
BROOMAN, CLINTON EDGCUMBE	227	25th Jan. 1869	Construction of cocks or valves. (Communicated by Felix Dehaynin.)
BROOMAN, CLINTON EDGCUMBE	332	3rd Feb. 1869	Construction of corsets or stays. (Communicated by Leontine Marie Guillot.)
BROOMAN, CLINTON EDGCUMBE	473	16th Feb. 1869	Treating the waste of wool, silk, horn and other nitrogenized animal matters to be used as manure. (Communicated by Paul Pichelin.)
BROOMAN, CLINTON EDGCUMBE	631	1st March 1869	Improvements in the construction of spring mattresses and in bedsteads for the same, parts of the improvements in mattresses being applicable to sofas and other seats. (Communicated by Julie Adolphine Massé.)
BROOMAN, CLINTON EDGCUMBE	673	5th March 1869	Manufacture of fabrics by the employment of fur or down therein. (Communicated by Ernest Macaigne and Jules Macaigne.)
BROOMAN, CLINTON EDGCUMBE	769	12th March 1869	Process of and apparatus for the manufacture or recovery of salt from salt water or brine. (Communicated by Barthelemy Antoine Gutton.)
BROOMAN, CLINTON EDGCUMBE	845	19th March 1869	Apparatus for the use of petroleum and other oils and essences for the purpose of heating. (Communicated by Fabius Boital.)
BROOMAN, CLINTON EDGCUMBE	953	30th March 1869	Improved means of balling or winding threads, and apparatus employed therein, the apparatus being applicable to other purposes. (Communicated by Jean Bernard Felloni, aîné.)
BROOMAN, CLINTON EDGCUMBE	1158	14th April 1869	Apparatus for burning liquid hydrocarbons. (Communicated by Pierre Emile Martin.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BROOMAN, CLINTON EDGCUMBE	1159	14th April 1869	Improvements in the means of producing motive-power and in the apparatus connected therewith. (Communicated by Eugene Frederic Alexandre Goguel.)
BROOMAN, CLINTON EDGCUMBE	1230	21st April 1869	Dressing or finishing fabrics. (Communicated by Joseph Ernest Thie-monge.)
BROOMAN, CLINTON EDGCUMBE	1508	17th May 1869	Apparatus for applying breaks on railways. (Communicated by Samuel Henry Tisbury.)
BROOMAN, CLINTON EDGCUMBE	1617	26th May 1869	Bleaching vegetable fibres, threads and fabrics. (Communicated by Cyprien Marie Tessie du Motay.)
BROOMAN, CLINTON EDGCUMBE	1674	31st May 1869	Construction of boilers and furnaces for generating steam and for economizing fuel. (Communicated by Elijah Weston.)
BROOMAN, CLINTON EDGCUMBE	1887	19th June 1869	Apparatus for ascertaining weights and strains. (Communicated by Joseph Jaspar.)
BROOMAN, CLINTON EDGCUMBE	2035	6th July 1869	Apparatus for heating and distilling water for boiler and other purposes. (Communicated by Cyprien Marie Tessie du Motay, Jean Baptiste Frédureau and Henri Paul de Chavannes.)
BROOMAN, CLINTON EDGCUMBE	2076	10th July 1869	Improvements in central-fire cartridges and in apparatus for extracting the same. (Communicated by Antoine Alphonse Chassepot.)
BROOMAN, CLINTON EDGCUMBE	2378	9th Aug. 1869	Means or apparatus for carrying or storing eggs. (Communicated by Philip Paul Josef.)
BROOMAN, CLINTON EDGCUMBE	2420	13th Aug. 1869	Treating the waste of wool, silk, horn and other nitrogenized animal matters to be used as manure. (Communicated by Paul Pichelin.)
BROOMAN, CLINTON EDGCUMBE	2736	20th Sept. 1869	Improvements in the manufacture of chains and in the apparatus in connection therewith. (Communicated by the Company or Society Marrel, frères.)
BROOMAN, CLINTON EDGCUMBE	2932	9th Oct. 1869	Liquid meters or apparatus for measuring the flow of liquids. (Communicated by Michel Greyveldinger and Company.)
BROTHERHOOD, PETER - -	107	14th Jan. 1869	Valves.
BROTHERTON, JOHN - -	1524	18th May 1869	Manufacture of iron and steel tubes.
BROUGHTON, WILLIAM - -	1349	1st May 1869	Improvements in cooking ranges and other fire places, and in apparatus for carrying and turning cooking spits, parts of the said apparatus being also applicable for turning ventilators and other appliances.
BROWN, ALEXANDER - -	2466	18th Aug. 1869	Ground or earth screws.
BROWN, ANDREW BETTS -	61	8th Jan. 1869	Improvements in machinery for raising and conveying weights and conveying power, and in pumping engines suitable for actuating such machinery.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BROWN, ANDREW BETTS -	2401	11th Aug. 1869	Hydraulic printing or copying presses.
BROWN, DONALD - - -	3001	15th Oct. 1869	An improved method of treating iron and other metal surfaces so as to render the same better adapted to advertizing and other purposes.
BROWN, EDWARD - - -	2986	12th Oct. 1869	An improvement in the mode of propelling carriages, boats and other vehicles by the hands or feet.
BROWN, FREDERICK - -	1651	28th May 1869	Velocipedes called bicycles.
BROWN, GEORGE - - -	162	18th Jan. 1869	Improvements in gas meters and other measures by apparatus for registering the passage of gas and other bodies.
BROWN, GEORGE HUNTER -	651	3rd March 1869	Construction of waterclosets. (Patented by William Edward Newton.)
BROWN, ISAAC - - -	2363	7th Aug. 1869	Improvements in irrigating and manuring land and in the apparatus or means employed therefor.
BROWN, JOHN - - -	2558	28th Aug. 1869	Improved means of and appliances for facilitating the exercise or riding of bicycles or velocipedes.
BROWN, JOHN HARCOURT -	1812	12th June 1869	Improvements in the manufacture of helmets, hats, caps, and similar articles, and in the apparatus and arrangement thereof.
BROWN, ORREN LEE - -	3358	20th Nov. 1869	Machinery for distributing type. (Patented by William Robert Lake.)
BROWN, RICHARD - - -	1817	14th June 1869	Manufacture of iron.
BROWN, RICHARD - - -	1968	30th June 1869	Improvements in the manufacture of iron and in apparatus therefor.
BROWN, THOMAS - - -	255	27th Jan. 1869	Improvements in liquid discharging apparatus for extinguishing fire and other purposes, and in the means for generating gas within such apparatus. (Communicated by William Lincoln.)
BROWN, THOMAS - - -	785	15th March 1869	Construction of water cocks or valves.
BROWN, THOMAS - - -	3411	25th Nov. 1869	Construction and arrangement of machinery or apparatus for drilling or boring rocks or other analagous substances. (Communicated by Charles Burleigh.)
BROWN, WILLIAM - - -	266	28th Jan. 1869	Fire-bars.
BROWN, WILLIAM - - -	2342	5th Aug. 1869	Machinery for rolling rails and girders and other sections of iron and steel and other metals.
BROWN, WILLIAM - - -	2532	25th Aug. 1869	Improvements in the mode of constructing and disposing ships' cabins to prevent sea sickness, the said improvements being also applicable to gun carriages on board ship.
BROWNE, ALEXANDER - -	271	28th Jan. 1869	An improved rotatory engine. (Communicated by Edward Bartlett.)
BROWNE, ALEXANDER - -	364	5th Feb. 1869	A process for the direct decomposition of neutral fatty substances for the manufacture of stearine. (Communicated by Adolph Emil Borgen.)
BROWNE, HENRY - - -	1123	13th April 1869	Velocipedes.
BROWNING, HENRY - - -	1691	1st June 1869	Compositions suitable for use as varnish or paint.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BROWNING, THOMAS - -	3409	30th Nov. 1869	Drying machines suitable for drying ears of corn, grain, seeds, malt, spent hops, brewers' and distillers' grains and other materials.
BRUNDAGE, EDWIN LEWIS -	2599	30th Aug. 1869	Improved machinery for manufacturing nails, brads and other analogous articles. <i>(Patented by William Edward Newton.)</i>
BRUNTON, JOHN - - -	3427	26th Nov. 1869	Working and locking railway points and signals.
BRUNTON, JOHN DICKINSON -	1618	26th May 1869	Machinery for tunnelling, shaft sinking and stone dressing.
BRYCESON, HENRY - - -	340	4th Feb. 1869	Improvements in the construction of organs, and in the application of electricity and hydraulics thereto.
BRYCESON, JOHN - - -	340	4th Feb. 1869	Improvements in the construction of organs, and in the application of electricity and hydraulics thereto.
BUCHAN, PATRICK - - -	696	8th March 1869	Preparing for spinning jute and other vegetable fibres
BUCHANAN, GEORGE - - -	2028	6th July 1869	Improvements in preserving animal and vegetable substances for use as food, and in apparatus for effecting the same.
BUCHANAN, JAMES - - -	3070	21st Oct. 1869	Apparatus for coiling electric telegraph cables or ropes.
BUCHANAN, JOHN - - -	2819	28th Sept. 1869	Obtaining and applying a substitute for "soda crystals," soda ash or "refined ash."
BUCHHOLZ, GUSTAV ADOLPH	3259	11th Nov. 1869	Improved machinery for hulling grain.
BUCK, THOMAS - - -	2861	2nd Oct. 1869	An improved pen holder or reservoir writing instrument.
BUCK, WILLIAM HENRY -	1162	15th April 1869	Velocipedes.
BUDD, JAMES PALMER - -	699	8th March 1869	Manufacture of iron and steel.
BUDD, JAMES PALMER - -	3247	11th Nov. 1869	Manufacture of iron.
BUESNEL - - - -	1785	9th June 1869	Improvements in the manufacture of artificial fuel and in apparatus for the purpose. <i>(Patented by William Lloyd Wise.)</i>
BUIRAT, STANISLAS AMBROISE	3643	16th Dec. 1869	An improved process for producing engraved metallic plates for commercial indications.
BUJEAUD, FRANÇOIS - -	1332	30th April 1869	Apparatus for making bottle envelopes.
BULL, ALFRED EDWIN -	1082	9th April 1869	Fastenings for boots, shoes and other articles.
BULL, THOMAS CHARLES -	1223	21st April 1869	An improvement in the manufacture of boots or shoes.
BULL, WILLIAM - - -	2226	22nd July 1869	Velocipedes.
BULLIVANT, THOMAS - -	1455	12th May 1869	Improvements in window sashes, shutters and frames, and in pulleys for the same, and for other puposes.
BULLOUGH, JOHN - - -	1367	4th May 1869	Warping or beaming machines.
BULLOUGH, JOHN - - -	1673	31st May 1869	Looms for weaving.
BULLOUGH, JOHN - - -	1882	19th June 1869	Looms for weaving.
BULLOUGH, JOHN - - -	2820	28th Sept. 1869	Looms for weaving. <i>(Communicated by Jean Dollfus, Frederic Engel, Emile Burnat, Jules Kæchlin, and Gustave Dollfus.)</i>
BULLY, FRANÇOIS FERDINAND [ZEPHIR.]	3491	2nd Dec. 1869	Spring mattresses. <i>(Patented by John Henry Johnson.)</i>

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BUNNING, THEOPHILUS WOOD	2889	5th Oct. 1869	Apparatus used in getting coal, stone and other minerals.
BURDEN, JAMES ABERCROMBIE	1586	22nd May 1869	Machinery for casting iron. (Patented by George Tomlinson Bousfield.)
BURDESS, ADAM - - -	2266	23th July 1869	An improved method of winding up watches and other time pieces. and of moving the hands thereof.
BURDETT, ORLANDO - -	1548	19th May 1869	Certain improvements in velocipedes.
BURDICT, ORIN CLARK - -	1647	28th May 1869	Machinery employed in the manufacture of bolts and nuts. (Patented by William Robert Lake.)
BURGE, GEORGE, the younger -	3143	29th Oct. 1869	Manufacture of cement.
BURGESS, HUGH - - -	2212	21st July 1869	Obtaining extract from hops. (Patented by John Henry Johnson.)
BURGESS, WILLIAM - - -	212	22nd Jan. 1869	Mincing machines.
BURGH, NICHOLAS PROCTER -	3619	15th Dec. 1869	An improved double or single acting pump.
BURGON, CHARLES - - -	3278	13th Nov. 1869	Manufacture of sheep sheers.
BURKE, CORNELIUS - - -	2679	13th Sept. 1869	Treatment of fatty and oily matters to prepare them for the manufacture of candles and for other purposes, and in apparatus for such treatment.
BURKE, EDMUND HAVILAND -	3422	26th Nov. 1869	Metallic barrels.
BURKE, MICHAEL - - -	168	19th Jan. 1869	Construction of ships' skylights.
BURKITT, RICHARD SCOTT -	2714	18th Sept. 1869	Improved apparatus for effecting the combustion of smoke in furnaces or fire-places.
BURLEIGH, CHARLES - - -	3411	25th Nov. 1869	Construction and arrangement of machinery or apparatus for drilling or boring rocks or other analogous substances. (Patented by Thomas Brown.)
BURLEY, WILLIAM - - -	649	3rd March 1869	Improvements in carriage lamps and in the arms by which carriage lamps are attached to carriages.
BURNAT, EMILE - - -	2820	28th Sept. 1869	Looms for weaving. (Patented by John Bullough.)
BURNETT, WILLIAM HICKLING	2602	3rd Sept. 1869	Improved modes of signalling on railways by means of sound, and apparatus to effect the same.
BURNS, THOMAS - - -	2754	22nd Sept. 1869	Method of pumping water from shafts, pits or similar places, which method is also applicable for drawing gas from goaves in mines, and for ventilating pits or shafts in course of sinking.
BURNS, TOM BELL - - -	1127	13th April 1869	Construction of cases to be employed with breech-loading fire-arms to render them available for use with ordinary loose ammunition.
BURR, WILLIAM - - -	689	8th March 1869	Manufacture of compressed leather.
BURROUGHS, JOSEPH, Junior -	3363	20th Nov. 1869	Improvements in electro-magnetic machines, and in magnets for the same and for other purposes.
BURROWS, WILLIAM - - -	7	1st Jan. 1869	Bushing the bung holes of casks and other vessels.
BURT, JOHN - - -	1721	3rd June 1869	Manufacture of iron. (Patented by John Henry Johnson.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
BURTON, EPHRAIM - - -	182	20th Jan. 1869	A new or improved machine for distributing sand or other matters in public thoroughfares.
BURTON, JOHN EDWARD -	205	22nd Jan. 1869	Machinery or apparatus for spinning, twisting or doubling and roving wool or other fibrous substances.
BURTON, JOHN WATSON -	1954	28th June 1869	Manufacture of combined woven and felted fabrics.
BURTON, ROBERT - - -	1318	28th April 1869	Apparatus to be used in cultivating land when steam power is employed.
BURTON, W. LEIGH - - -	888	24th March 1869	The heating of railway and all other carriages, steamers, vessels, public and private apartments or buildings, by means of electricity. (Patented by Matthew Fontaine Maury.)
BUSK, STEPHEN - - -	3199	4th Nov. 1869	Bar iron for the manufacture of shoes for horses and other animals. (Communicated by Stanley Peter Youle.)
BUSTIN, ROBERT - - -	1791	10th June 1869	An improved apparatus for readjusting railway locomotives, carriages and other rolling stock thrown off the metals of railways and tramways. (Patented by George Bedell.)
BUTCHER, JOHN - - -	2858	2nd Oct. 1869	Fountain pens and penholders.
BUTIN-DENNIEL, AUGUSTE -	2176	19th July 1869	An improved method of and apparatus for generating steam. (Patented by William Edward Gedge.)
BUTLER, CEPHAS - - -	1359	3rd May 1869	Certain improvements in lamps for burning paraffin and other hydrocarbon oils.
BUTLER, JAMES DOUGLAS -	2528	25th Aug. 1869	Braiding or platting machines. (Patented by William Robert Lake.)
BUTLER, JOHN OCTAVIUS -	3639	16th Dec. 1869	Manufacture of wheels and pulleys.
BUTLER, JOHN OCTAVIUS -	3766	30th Dec. 1869	Manufacture of tyres and hoops for railway wheels and other purposes.
BUTLER, SAMUEL - - -	3670	18th Dec. 1869	Manufacture of lace in twist lace machines.
BUTLER, THOMAS - - -	2017	3rd July 1869	Manufacture of lace made on bobbin net or twist lace machines.
BUTTERFIELD, ILLINGWORTH -	1644	28th May 1869	Machinery or apparatus for dressing warps.
BUTTERWORTH, JAMES - -	2554	28th Aug. 1869	Mangling and squeezing machines.
BYK, HEINRICH - - -	3556	9th Dec. 1869	Refining and bleaching paraffine.
BYRNE, LUKE - - -	2887	5th Oct. 1869	A new or improved construction of pump for domestic, horticultural and other useful purposes.
BYRNE, LUKE - - -	3002	15th Oct. 1869	An improved packing applicable for buckets, pistons and stuffing-boxes, and for all other purposes where packing is employed.
BYRNE, WILLIAM - - -	2490	20th Aug. 1869	Improvements in the process of distilling alcoholic liquors, and in apparatus for that purpose.
BYWATER, WILLIAM - - -	1686	1st June 1869	Improvements in the manufacture of felted fabrics, and in machinery employed therein.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
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CADBURY, GEORGE - -	1414	8th May 1869	A new or improved description of biscuit manufactured from the cacao bean.
CADBURY, RICHARD - -	1414	8th May 1869	A new or improved description of biscuit manufactured from the cacao bean.
CADDICK, JOSEPH - - -	2393	10th Aug. 1869	Improvements in candlesticks and in manufacturing parts of candlesticks.
CADMAN, WILLIAM EMMOTT -	961	30th March 1869	Decorating surfaces.
CADOGAN, WALTER - -	1475	13th May 1869	Couplings for connecting together the ends of driving straps or bands.
CAFFALL, ROBERT MAY - -	723	9th March 1869	Improved means for rendering walls and other exposed surfaces impervious to the action of water or moisture, and to preserve them from atmospheric and other destroying influences or causes.
CAIL, JEAN FRANÇOIS - -	717	9th March 1869	Road locomotives. (Patented by Bristow Hunt.)
CAIL, JEAN FRANÇOIS - -	2535	26th Aug. 1869	Improvements in steam condensers, and in supplying steam generators with water. (Patented by Bristow Hunt.)
CAILLET, FERDINAND LOUIS [FELIX.]	361	5th Feb. 1869	Mounting and working ordnance. (Patented by John Henry Johnson.)
CAIRNS, COLIN - - -	1029	5th April 1869	Heating by steam for manufacturing and other purposes.
CALDESI, CAVALIERE LEONIDA	2080	10th July 1869	A new or improved kitchen-cart, to be used for military and other purposes. (Communicated by Pietro Involi.)
CALDESI, CAVALIERE LEONIDA	2251	24th July 1869	Collars and false collars for horses and all other beasts of burden. (Communicated by Cavaliere Achille Angelini.)
CALL, HORACE - - -	2529	25th Aug. 1869	An improved mode of and machinery for obtaining and applying motive-power, more especially designed for the transmission of the same to long distances.
CALLA, CHARLES ANTONIO MC	3565	9th Dec. 1869	Improvements in closing and stoppering bottles, tubes and other such vessels, and in the means of regulating and measuring the flow of liquids from such vessels.
CALLUM, MALCOLM M - -	226	25th Jan. 1869	Machinery or apparatus to be employed for finishing textile or other fabrics.
CALOW, JOHN THOMAS - -	913	25th March 1869	Safety apparatus applicable to cages or hoists used in mining or lifting machines.
CALVERT, BARRATT - -	2985	14th Oct. 1869	A new or improved machine for cleaning hose pipe used for fire-engines and other purposes.
CALVERT, CHARLES ALEXAN- [DER.]	3783	31st Dec. 1869	An improved apparatus for self-registering and checking the money taken for admission to public entertainments and all places where a check on money-taking is desirable.
CALVERT, FRANCIS ALTON -	1685	1st June 1869	Engines for obtaining motive-power.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
CAMEL, JEAN CLÉMENT LÉON	192	21st Jan. 1869	An improved surgical truss or bandage.
CAMERE, EDOUARD JULES [ANATOLE.	405	9th Feb. 1869	Rotary steam-engines.
CAMERON, ADAM SCOTT - -	1899	21st June 1869	Improvements in blowing and pumping engines, parts of which improvements are applicable to other direct-acting steam-engines. (Patented by William Robert Lake.)
CAMPAIN, SAMUEL WILLIAM	452	13th Feb. 1869	Drills for sowing seed and manure.
CAMPBELL, CHARLES JAMES [FOX.	1094	9th April 1869	Means for hanging pictures, looking-glasses and other like articles.
CAMPBELL, EDMUND ALEXAN- [DER.	2546	27th Aug. 1869	A new and improved apparatus for extracting the essence of roasted coffee.
CAMPION, WILLIAM - -	801	16th March 1869	Sewing-machines.
CAMPION, WILLIAM - -	2477	19th Aug. 1869	Sewing-machines.
CAMPION, WILLIAM - -	2327	8th Oct. 1869	Sewing-machines.
CANE, JOHN - - - -	1207	27th April 1869	Improvements in cases or holders for fusees commonly known as vesuvians and other lights, and in fusees or pellets to be used therewith.
CANN, JOHN MC - - -	2404	11th Aug. 1869	Manufacture of dry soap for washing, cleansing, calendering and finishing cotton and cotton fabrics, wool and woollen fabrics, and mixtures of the same.
CANTERAC, LIEUTENANT- [COLONEL.	2099	12th July 1869	An improved construction of cartridge box. (Patented by Constant Mertens.)
CAPLIN, JOHN - - -	991	1st April 1869	Improvements in certain parts of umbrellas and parasols.
CARDON, EMILE - - -	1854	16th June 1869	Construction of ships.
CAREY, ROBERT FREDERICK -	2017	3rd July 1869	Manufacture of lace made on bobbin net or twist lace machines.
CARNELLEY, WILLIAM - -	2051	7th July 1869	Improvements applicable to steam-boilers.
CARO, HEINRICH - - -	1986	25th June 1869	Preparing coloring matters.
CARO, HENRY - - - -	488	17th Feb. 1869	An improved method of obtaining benzole and its homologous substances from coal gas. (Patented by William Robert Lake.)
CARPENTER, ROBERT JOHN -	3604	13th Dec. 1869	An improvement in the manufacture of iron and steel. (Communicated by Sydney Wright Hopkins and Frank Howard Collins.)
CARPENTER, WILLIAM TURNER	782	13th March 1869	Apparatus used in the manufacture of gas.
CARR, JAMES - - - -	229	25th Jan. 1869	Production of tapes or "ladders" for venetian blinds.
CARRODUS, THOMAS - -	863	22nd March 1869	A new or improved self-coupler for railway engines, carriages and waggons.
CARTER, ABEL - - - -	15	2nd Jan. 1869	An improvement in candlesticks.
CARTER, HENRY - - - -	984	1st April 1869	Breech-loading fire-arms known as "Chassepot" rifles.
CARTER, HENRY - - - -	1767	8th June 1869	Breech-loading fire-arms known as Chassepot rifles.
CARTER, JAMES - - - -	815	17th March 1869	Improvements in disinfecting and deodorizing fecal and excremental matters, and in obtaining manure.
CARTER, JOHN - - - -	423	10th Feb. 1869	Waterclosets.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
CARTER, JOHN WALKER MC -	1222	21st April 1869	Condensers for steam-engines.
CARTER, THOMAS WHINREY -	279	29th Jan. 1869	Construction of ships and vessels in order to facilitate propulsion and steering, and the protection and repair of the propellers and rudders.
CARTER, WALTER - - -	454	15th Feb. 1869	Horseshoes.
CARTHY, ALFRED PATRICK MC	902	24th March 1869	Obtaining motive-power.
CARTHY, ALFRED PATRICK MC	2753	22nd Sept. 1869	Obtaining motive-power.
CARTNEY, WILLIAM NEWTON [MAC.]	3339	19th Nov. 1869	An improved railway carriage for passengers. (Communicated by Edward Robbins.)
CARVER, WILLIAM - - -	3659	18th Dec. 1869	Sewing-machines.
CARY, ALANSON - - -	1136	13th April 1869	Machinery or apparatus for making compound telegraph wire or conductors. (Patented by John Henry Johnson.)
CASANA, FRANÇOIS - - -	1755	7th June 1869	An improved tension swivel-coupling for nautical and other purposes. (Patented by Baldwin Fulford Weatherdon.)
CASELLA, LOUIS MARINO -	2972	13th Oct. 1869	An improved apparatus to be employed in lighting gas-burners, lamps and other articles.
CASH, JOHN - - - -	3083	23rd Oct. 1869	Boxes or cases for preserving letters, papers and other documents.
CASH, JOSEPH, junior - -	3083	23rd Oct. 1869	Boxes or cases for preserving letters, papers and other documents.
CASHIN, THOMAS FREDERICK -	1126	13th April 1869	Indicators in connection with switches or points on railways.
CASHIN, THOMAS FREDERICK -	1901	21st June 1869	Furnaces.
CASSEL, FERDINAND - - -	3086	23rd Oct. 1869	Preserving meat. (Patented by Theodor Dieckmann.)
CATCHPOOL, WILLIAM - - -	1239	22nd April 1869	Treatment of hay and straw.
CATEL, CHARLES - - - -	573	24th Feb. 1869	Improved apparatus for regulating friction on the bobbins of machines used for spinning cotton and other fibrous materials. (Patented by Bristow Hunt.)
CATLOW, CHRISTOPHER - -	155	18th Jan. 1869	Looms for weaving.
CATLOW, CHRISTOPHER - -	1580	21st May 1869	Looms for weaving.
CATLOW, CHRISTOPHER - -	1673	31st May 1869	Looms for weaving.
CATLOW, CHRISTOPHER - -	1882	19th June 1869	Looms for weaving.
CATLOW, CHRISTOPHER - -	3580	11th Dec. 1869	Looms and healds for weaving.
CATRIN, EDOUARD ONEZIME -	1220	21st April 1869	A novel application of a key to act as a cock at the upper part of bottles, demi-johns and analogous vessels.
CATT, CHARLES SHORTEN -	805	16th March 1869	Improvements in the joints of carriage shafts and in connecting splinter bars to carriages.
CATT, WILLIAM - - - -	805	16th March 1869	Improvements in the joints of carriage shafts and in connecting splinter bars to carriages.
CATTELL, THOMAS - - -	2566	30th Aug. 1869	An improved method of treating wood for the production of paper-pulp.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
CAUMON, CYRILLE JEAN -	18	4th Jan. 1869	Certain improvements in the process of refining iron and making steel, and in the apparatus used in carrying out said process. (Patented by <i>Henri Adrien Bonneville</i> .)
CAUMON, CYRILLE JEAN -	186	20th Jan. 1869	Improvements in the manufacture of illuminating gas and of sponge, by the action of hydrocarbon liquids or fluids on metallic ores, and in the furnaces for melting said sponge and other metals. (Patented by <i>Henri Adrien Bonneville</i> .)
CAUNCE, ROBERT - - -	310	2nd Feb. 1869	Machinery or apparatus for twisting yarns and other threads of cotton, wool, silk or other fibrous substances.
CAUNCE, ROBERT - - -	1923	24th June 1869	Machinery or apparatus for twisting yarns and other threads of cotton, wool, silk or other fibrous substances.
CAVALLI, GIOVANNI - -	3382	23rd Nov. 1869	An improved system of hydraulic traction on railways and other roads. (Patented by <i>William Edward Gedge</i> .)
CAWLEY, CHARLES EDWARD -	3180	2nd Nov. 1869	Improvements in tramways and in carriages to run thereon.
CEDERWALLER, ANDREAS [FRIEDRICK.]	2531	25th Aug. 1869	Certain improvements in the manufacture of porcelain-faience and pottery, and in apparatus therefor.
CÉNANT, HUBERT JOSEPH -	768	12th March 1869	Construction of steam, water and other cocks.
CÉRISIER, CONSTANT - -	2526	25th Aug. 1869	A new and improved system of airing and ventilating mill stones.
CHAFER, EDWIN - - -	2238	23rd July 1869	Improvements in the manufacture of artificial marble or stone, which improvements are also applicable in the manufacture of the beds of billiard and bagatelle tables.
CHALLENGER, CHARLES - -	1955	28th June 1869	A new or improved material or composition applicable to the manufacture of floor cloths, tarpaulins, railway sheets and other water-proof fabrics.
CHALLINER, WILLIAM - -	2978	13th Oct. 1869	Manufacture of forks and spoons.
CHAMBERS, AUSTIN - - -	962	31st March 1869	Improvements in carriages, vehicles or conveyances propelled or moved by manual power, parts of which improvements are applicable also to other purposes.
CHAMBERS, JAMES - - -	1145	14th April 1869	Improvements in looms for weaving and in apparatus used in connection therewith. (Partly communicated by <i>William Lancaster</i> .)
CHAMBERS, WILLIAM - - -	1786	9th June 1869	Improvements in refrigerating and ventilating carriages, trucks, or other moveable or fixed apparatus used for conveying or storing animal or vegetable substances of a perishable nature.
CHAMBERS, WILLIAM - - -	2814	28th Sept. 1869	An improved method of and means for ventilating.
CHAMPION, THOMAS - - -	909	25th March 1869	A new and improved method of constructing the flues or chimneys of houses and other buildings, and in apparatus connected therewith.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
CHAMPONNOIS, HUGHES - -	1486	14th May 1869	Improvements in the treatment of beetroot and other pulps, and in the machinery or apparatus employed therein. (Patented by John Henry Johnson.)
CHANCE, ARENT DE PEYSTER.	123	15th Jan. 1869	Step ladders. (Communicated by Furderer and Company.)
CHANDLER, JAMES - - -	1142	14th April 1869	Apparatus for drawing and preventing waste of water from pipes, mains, cisterns or other sources used for domestic or other purposes.
CHANDLER, JAMES - - -	2833	9th Oct. 1869	Apparatus for drawing and preventing waste of water from pipes, mains, cisterns or other sources for domestic or other purposes, also for waterclosets.
CHANDOR, LASLO - - -	744	11th March 1869	Imparting colours to hydro-carbonaceous fluids. (Patented by George Glover.)
CHANDOR, LASSLO - - -	1018	3rd April 1869	Lamps. (Patented by Francis William Hastings Medhurst.)
CHAPLIN, ALEXANDER - -	3784	31st Dec. 1869	Steam-boilers.
CHAPMAN, CHARLES - -	2105	13th July 1869	Application of pumps to artesian wells.
CHAPMAN, EDWARD - -	813	27th Feb. 1869	Carding-engines for flax, hemp, tow, jute, wool and other fibrous substances.
CHAPMAN, ROBERT - -	1192	19th April 1869	Railway fish-plates and the mode of fixing the same.
CHAPMAN, ROBERT - -	2918	8th Oct. 1869	Construction and mode of fastening railway fish-plates and chairs.
CHARLET, WILLIAM - -	2548	27th Aug. 1869	A new system of sash or framework for landau and landauet carriage doors.
CHARLTON, THOMAS - -	1716	3rd June 1869	Improvements in and additions to multi-tubulous and water sheet steam-boilers and their fire-boxes or furnaces, such improvements being applicable in part to surface condensers and refrigerators.
CHARPENTIER, HENRI - -	285	29th Jan. 1869	Machinery for hulling or decorticating grain. (Patented by Alexander Melville Clark.)
CHARSLEY, ROBERT HARVEY -	2451	17th Aug. 1869	A new or improved carriage for locomotion by manual labour.
CHASE, GEORGE HENRY -	564	23rd Feb. 1869	Fire boxes and ash pans of locomotive engines. (Patented by Alfred Vincent Newton.)
CHASE, GEORGE SIDLEY -	1046	7th April 1869	Apparatus for the combustion of gas.
CHASE, SILAS EDWIN - -	941	29th March 1869	Improvements in the manufacture of horse-shoe nails, and in machinery employed in such manufacture. (Patented by William Robert Lake.)
CHASSEPOT, ANTOINE AL- [PHONSE.	2076	10th July 1869	Improvements in central fire cartridges, and in apparatus for extracting the same. (Patented by Clinton Edgcumbe Brooman.)
CHATIN, GEORGE HENRY -	2750	22nd Sept. 1869	Manufacture of umbrellas, parasols and sunshades.
CHATWOOD, SAMUEL - -	3264	12th Nov. 1869	Improvements in furnaces and in apparatus connected therewith.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
CHATWOOD, SAMUEL - -	3398	24th Nov. 1869	Apparatus for forcing and drawing fluids and liquids.
CHATWOOD, SAMUEL - -	3520	4th Dec. 1869	An improved self-acting escape valve for drawing off the condensed fluids from steam-engines, pipes and other steam vessels.
CHAUFOURIER, JULES ALFRED	1072	8th April 1869	A new or improved continuous self-feeding cotton gin.
CHAVANNES, HENRI PAUL DE	2035	6th July 1869	Apparatus for heating and distilling water for boiler and other purposes. (Patented by Clinton Edgumbe Brooman.)
CHECKETTS, JOHN - - -	2461	18th Aug. 1869	An improved window blind.
CHEETHAM, JAMES - - -	596	26th Feb. 1869	Form and manner of winding yarns whether single or multiple, for convenience of carriage and for facility in unwinding in the after processes.
CHÉMERY, VICTOR - - -	894	24th March 1869	Construction of apparatus for damping and pressing simultaneously the surface of cloth and felted fabrics previous to finishing.
CHÉMERY, VICTOR - - -	2765	23rd Sept. 1869	Construction of apparatus for damping and pressing simultaneously the surface of cloth and felted fabrics previous to finishing.
CHÈNES, EDMOND PHILIBERT [JEAN LOUIS TERREL DES.	2735	20th Sept. 1869	Apparatus for heating wines and other fermentable liquids, parts of such apparatus being also applicable to other purposes. (Patented by William Armand Gilbee.)
CHERPIT, GABRIEL - - -	3299	16th Nov. 1869	Construction of healds for looms.
CHERRY, JOHN - - -	499	18th Feb. 1869	An improved machine for pressing bricks, tiles or other similar articles.
CHEVILLOTTE, MARIE PIERRE	1872	18th June 1869	The production of novel and ornamental effects in the manufacture of various articles of glass, applicable to various ornamental and other objects and to lamp shades, globes, reflectors or other transparent or semi-transparent articles made of glass, and in means or apparatus employed for the above purpose. (Patented by John Garrett Tongue.)
CHEVRILLON, ACHILLE - -	1952	28th June 1869	An improved ventilating hat or covering for the head. (Patented by Charles Denton Abel.)
CHEW, CHARLES FREDERICK -	1619	26th May 1869	Pianofortes.
CHILD, WILLIAM HENRY -	144	16th Jan. 1869	Steam-boilers.
CHILD, WILLIAM HENRY -	3558	9th Dec. 1869	Liquid meters.
CHILD, WILLIAM HENRY -	3702	22nd Dec. 1869	Steam-boilers.
CHILDS, AUGUSTUS BRYANT -	1738	5th June 1869	Machinery for cleaning and decorticating wheat and other grain, hulling, cleaning and polishing rice.
CHILDS, AUGUSTUS BRYANT -	1938	25th June 1869	Catamenial sacks or uterine supports.
CHILDS, AUGUSTUS BRYANT -	2958	12th Oct. 1869	An improved process for reducing wood to a fibrous condition for the manufacture of paper stuff or pulp.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
CHILDS, AUGUSTUS BRYANT -	3357	20th Nov. 1869	Machinery for cleaning, scouring and decorticating wheat and other kinds of grain, and also for hulling, cleaning and polishing rice.
CHILDS, JAMES - - -	3540	7th Dec. 1869	Manufacture of bread and biscuits.
CHING, COMYN - - -	3310	16th Nov. 1869	Boilers of hot-water apparatus for supplying baths and other purposes.
CHOATE, SYLVANUS FREDERICK [VAN.	1093	10th April 1869	Certain improvements in fire-arms.
CHOUET, CHARLES ALEXAN- [DRE HUBERT.	1138	13th April 1869	A dental wash. (Patented by John Henry Johnson.)
CHRISTIAN, EWAN - - -	2663	10th Sept. 1869	An improved fastening for metallic hoops or bands. (Patented by John Henry Johnson.)
CHRISTY, FREDERICK COLLIER	1279	24th April 1869	Construction of axle-boxes for railway carriages and other vehicles. (Patented by William Robert Lake.)
CHUBB, CHARLES JOHN - -	195	21st Jan. 1869	Drills and apparatus for boring holes in coal, hard ground, slate and minerals.
CHUBB, CHARLES JOHN - -	2352	6th Aug. 1869	Drills and apparatus for boring holes in coal, hard ground, slate and minerals.
CHURCHILL, CHARLES - -	2018	3rd July 1869	An improved implement for drawing nails. (Communicated by Willis Churchill.)
CHURCHILL, WILLIS - -	2018	3rd July 1869	An improved implement for drawing nails. (Patented by Charles Churchill.)
CHUTAUX, THÉOPHILE - -	2655	9th Sept. 1869	Electric batteries. (Patented by Henri Adrien Bonneville.)
CHUTAUX, THÉOPHILE - -	3377	23rd Nov. 1869	Electro-metallurgy. (Patented by Henri Adrien Bonneville.)
CHUTAUX, THÉOPHILE - -	3378	23rd Nov. 1869	Electric batteries. (Patented by Henri Adrien Bonneville.)
CLAPP, WILLIAM HENRY -	745	11th March 1869	Signal lanterns.
CLARBOUR, FOUNTAIN - -	3289	15th Nov. 1869	Certain improvements in mining lamps.
CLARK, ALEXANDER - - -	363	5th Feb. 1869	Mules for spinning yarns. (Communicated by Seth Daniel Paul and Simeon Sabin Cook.)
CLARK, ALEXANDER - - -	875	22nd March 1869	Machinery for rubbing and mixing paints, chemicals, fertilizers and other substances. (Communicated by Robert Poole.)
CLARK, ALEXANDER - - -	944	29th March 1869	Stereoscopes. (Communicated by John Francis Adams.)
CLARK, ALEXANDER - - -	1273	24th April 1869	Reaping and mowing machines. (Communicated by Samuel Clark Ridgeway.)
CLARK, ALEXANDER - - -	1946	26th June 1869	Improvements applicable to the permanent way and rolling stock of railways. (Communicated by David Harrison.)
CLARK, ALEXANDER MELVILLE	118	14th Jan. 1869	Breech-loading fire-arms and cartridges. (Communicated by Jules Félix Gévelot.)
CLARK, ALEXANDER MELVILLE	164	18th Jan. 1869	Manufacture and refining of sugar. (Communicated by Louis Joseph Frédéric Margueritte.)
CLARK, ALEXANDER MELVILLE	194	21st Jan. 1869	Clasps or fastenings for scarfs and other articles of dress. (Communicated by Simon Schloss and Stephan alias Simon Lerchenthal.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
CLARK, ALEXANDER MELVILLE	285	29th Jan. 1869	Machinery for hulling or decorticating grain. (Communicated by Henri Charpentier.)
CLARK, ALEXANDER MELVILLE	517	19th Feb. 1869	Improved means for increasing the tractive power of road and other locomotive engines and carriages. (Communicated by Eugène Bachelier.)
CLARK, ALEXANDER MELVILLE	685	6th March 1869	Improvements in envelopes and in the means employed for securing their contents. (Communicated by Emile Granier and Henry Lawenberg.)
CLARK, ALEXANDER MELVILLE	719	9th March 1869	Improved fabrics or materials applicable as umbrella and parasol coverings and for other purposes. (Communicated by Jean Degivry.)
CLARK, ALEXANDER MELVILLE	772	12th March 1869	The application and treatment of a new material for the preparation of pulp for paper. (Communicated by Joseph Marcel Marseille Jaubert.)
CLARK, ALEXANDER MELVILLE	1114	10th April 1869	Fountain pens. (Communicated by Edouard Ribeyre and Jonas Elias Gedalge.)
CLARK, ALEXANDER MELVILLE	1157	14th April 1869	Improvements in the manufacture of india-rubber nipples for feeding bottles and in the means employed therefor. (Communicated by Manuel Leopold Jonas Lavater.)
CLARK, ALEXANDER MELVILLE	1168	15th April 1869	Compasses and pen and pencil cases or holders. (Communicated by Jonas Elias Gedalge, junior, and L. Vernier.)
CLARK, ALEXANDER MELVILLE	1519	18th May 1869	Improvements in tramway and other locomotive engines and carriages, and in the permanent way for the same. (Communicated by Jean Larmanjat.)
CLARK, ALEXANDER MELVILLE	1576	21st May 1869	Apparatus for facilitating the opening of eggs. (Communicated by Joseph Augustin Joret.)
CLARK, ALEXANDER MELVILLE	1748	5th June 1869	Improvements in machinery for producing and applying motive-power and also in the parts connected therewith. (Communicated by Frederic Lesnard.)
CLARK, ALEXANDER MELVILLE	1772	8th June 1869	Machinery for propelling vessels. (Communicated by Frederic Lesnard.)
CLARK, ALEXANDER MELVILLE	1920	23rd June 1869	Electric telegraph apparatus. (Communicated by Ludovic Charles Adrien Joseph Guyot d'Arincourt.)
CLARK, ALEXANDER MELVILLE	1921	23rd June 1869	An improved anti-explosive or safety lamp applicable for mining and general purposes. (Communicated by Nicolas Louis Beauvils and Jacques Rexroth.)
CLARK, ALEXANDER MELVILLE	2073	10th July 1869	An improved mode of measuring or dividing time, applicable to chronometers, sextants and other such like instruments. (Communicated by Santoni Fattorini, Madame la Marquise de Lévy, née Louise Appoline Oudot de Dainville, and Laurent Petit.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
CLARK, ALEXANDER MELVILLE	2177	19th July 1869	Cables for the transmission of electric currents. (Communicated by Pier Alberto Balestrini.)
CLARK, ALEXANDER MELVILLE	2215	21st July 1869	Carding-engines. (Communicated by Paul Jacquel.)
CLARK, ALEXANDER MELVILLE	2280	27th July 1869	Manufacture and refining of sugar. (Communicated by Louis Joseph Frédéric Margueritte.)
CLARK, ALEXANDER MELVILLE	2408	11th Aug. 1869	Manufacture of phosphate of ammonia. (Communicated by Lucien Henri Blanchard.)
CLARK, ALEXANDER MELVILLE	2499	21st Aug. 1869	Springs for wheeled vehicles. (Communicated by Charles Shea and Henry Roberts.)
CLARK, ALEXANDER MELVILLE	2598	3rd Sept. 1869	Steam-boilers. (Communicated by Herman William Lüders.)
CLARK, ALEXANDER MELVILLE	2631	7th Sept. 1869	Construction of ships and other vessels. (Communicated by Jérôme Eugène Farcy.)
CLARK, ALEXANDER MELVILLE	2646	8th Sept. 1869	An improved machine for cutting or dressing millstones. (Communicated by Jean Bernard Lang and Rodolphe Mayor.)
CLARK, ALEXANDER MELVILLE	2700	15th Sept. 1869	Key guards, applicable also to the shanks of knob latches. (Communicated by Max Emanuel Berolzheimer.)
CLARK, ALEXANDER MELVILLE	2945	9th Oct. 1869	High and low water level indicators for steam-boilers. (Communicated by Gideon Blackburn Massey.)
CLARK, ALEXANDER MELVILLE	3072	21st Oct. 1869	Improvements in hinges and hinge guards for railway carriage and other doors, part of which improvements is applicable for warming and ventilating railway carriages. (Communicated by Pierre Ernest Gegnon.)
CLARK, ALEXANDER MELVILLE	3211	5th Nov. 1869	Boring tools. (Communicated by Alexander Allan.)
CLARK, ALEXANDER MELVILLE	3229	9th Nov. 1869	Improvements in the transportation of letters, parcels and other freight by atmospheric pressure, and in apparatus connected therewith. (Communicated by Alfred Ely Beach.)
CLARK, ALEXANDER MELVILLE	3341	19th Nov. 1869	An improved revolving battery gun. (Communicated by Richard Jordan Gatling.)
CLARK, ALEXANDER MELVILLE	3552	8th Dec. 1869	A new or improved mode of ornamenting figured muslin and gauze fabrics. (Communicated by Adolphe Teissonnière.)
CLARK, ALEXANDER MELVILLE	3573	10th Dec. 1869	Improvements in the ornamentation of shell brooches and other articles of this material. (Communicated by Joseph François Sordollet.)
CLARK, ALEXANDER MELVILLE	3645	16th Dec. 1869	Manufacture of superphosphate of lime. (Communicated by Lucien Henri Blanchard.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
CLARK, ALEXANDER MELVILLE	3658	17th Dec. 1869	Jacquard apparatus. (Communicated by Eugène Viacenzi.)
CLARK, ALEXANDER MELVILLE	3725	23rd Dec. 1869	New or improved materials to be used as curtains and blinds, together with the means of ornamenting the same. (Communicated by Adolphe Trissonnière.)
CLARK, ALLAN McDUGALL -	3535	7th Dec. 1869	Means for securing bales of fibrous and other substances. (Patented by Benjamin Joseph Barnard Mills.)
CLARK, FREDERICK - -	3291	15th Nov. 1869	Machinery for the manufacture of pipes, bricks, tiles and other articles from clay and other materials.
CLARK, GEORGE - - -	1379	5th May 1869	Cartridges, and appliances for their construction, manufacture and use.
CLARK, HENRY BOON - -	2200	20th July 1869	Horse-rakes.
CLARK, JOHN - - - -	65	8th Jan. 1869	Railway breaks.
CLARK, JOHN - - - -	1322	29th April 1869	Radiating the axles of railway carriages.
CLARK, JOHN - - - -	2019	5th July 1869	Improvements in feeding steam-boilers or generators and in the apparatus or mechanism employed therefor.
CLARK, JOSIAH LATIMER -	1524	18th May 1869	Manufacture of iron and steel tubes.
CLARK, PATRICK - - -	1135	13th April 1869	An improved construction of fan blower. (Patented by Alfred Vincent Newton.)
CLARK, SAMUEL WILSON -	1508	17th May 1869	Hand signal and other railway lamps.
CLARK, THOMAS - - -	3116	27th Oct. 1869	Improved implements adapted for constructing tube wells and driving hollow piles, and in the mode of operating therewith for those purposes.
CLARK, THOMAS - - -	3519	4th Dec. 1869	Covers of umbrellas and parasols.
CLARK, WILLIAM - - -	640	3rd March 1869	Apparatus for clipping or shearing horses and other animals.
CLARK, WILLIAM STEPHENS -	2615	4th Sept. 1869	Improvements in the manufacture of boots and shoes, and in machinery and apparatus employed therein.
CLARKE, GEORGE - - -	3068	21st Oct. 1869	Hansom cabs.
CLARKE, ROBERT HARVEY -	158	18th Jan. 1869	Improvements in the manufacture of silk cloths, and in fixing them on silk bolting reels, for dressing meal and flour.
CLARKE, THOMAS - - -	1649	28th May 1869	Improvements in the construction and working of velocipedes for use on land or water, parts of which improvements are also applicable to wheeled vehicles of every description.
CLARKE, THOMAS ROBERT -	1686	1st June 1869	Improvements in the manufacture of felted fabrics and in machinery employed therein.
CLARKE, WILLIAM - - -	1905	22nd June 1869	Construction of windlasses.
CLARKSON, GEORGE GRAEME -	2570	30th Aug. 1869	Furnaces. (Patented by Henry Edward Newton.)
CLAUGHTON, HENRY - -	812	17th March 1869	Screw propellers.
CLAUS, CARL FRIEDRICH -	819	17th March 1869	Manufacture of carbonate of potash, and the recovery of certain products evolved therein.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
CLAUS, CARL FRIEDRICH -	2616	6th Sept. 1869	Improvements in the manufacture of carbonate of soda and in the recovery of waste products resulting therefrom, and in the construction of apparatus to be employed for such purposes.
CLAUS, CARL FRIEDRICH -	3745	27th Dec. 1869	Manufacture of fluoride of potassium and sodium, and of hydrate and carbonate of potash and soda. (Patented by Edward Primerose Howard Vaughan.)
CLAY, JOHN - - -	1280	26th April 1869	An improved apparatus for carding tow. (Patented by George White.)
CLAYTON, ALFRED - - -	897	24th March 1869	Fire-arms.
CLAYTON, DAN - - -	3559	9th Dec. 1869	Shuttles.
CLAYTON, JOSEPH - - -	420	10th Feb. 1869	An improved paste for fixing and brightening aniline and pigment colors in printing on cotton, woollen, silk or mixed fabrics.
CLAYTON, JOSEPH - - -	2894	5th Oct. 1869	Construction of boilers for generating steam.
CLAYTON, LEONARD - - -	2036	6th July 1869	Construction of taps or valves.
CLAYTON, LAWRENCE - - -	2036	6th July 1869	Construction of taps or valves.
CLEGG, ARTHUR - - -	3047	19th Oct. 1869	Sewing-machines.
CLEMENS, MELVILLE - - -	3133	28th Oct. 1869	An improved shaft coupling.
CLEMENTS, JAMES MOORE -	2304	31st July 1869	Sewing-machines and their appliances.
CLEMM, AUGUST - - -	488	17th Feb. 1869	An improved method of obtaining benzole and its homologous substances from coal gas. (Patented by William Robert Lake.)
CLEMM, CHARLES - - -	488	17th Feb. 1869	An improved method of obtaining benzole and its homologous substances from coal gas. (Patented by William Robert Lake.)
CLEWS, ROBERTSON - - -	3336	19th Nov. 1869	Weaving textile fabrics.
CLIFF, JOHN - - -	627	1st March 1869	A new or improved composition to be used as a substitute for fire-bricks, and the method of using the same.
CLUNET, JEAN - - -	1994	2nd July 1869	A new and improved motive-power. (Patented by Henri Adrien Bonneville.)
COAD, THEOPHILUS - - -	2433	14th Aug. 1869	Construction of sewing-machines.
COATES, DAVID LINDSAY -	93	12th Jan. 1869	Couplings and wheels for shafting and gearing.
COCHRAN, JOHN WEBSTER -	2208	21st July 1869	Improvements in springs applicable to railroad or street cars and other purposes. (Patented by Alexander Horace Brandon.)
COCHRANE, ARTHUR AUCK- [LAND LEOPOLD PEDRO.	654	4th March 1869	Construction of marine structures.
COCHRANE, CHARLES - - -	1939	25th June 1869	Preparation of iron ores for smelting.
COCHRANE, CHARLES - - -	2265	26th July 1869	Improvements in the preparation of iron ores for smelting and in kilns or furnaces employed for that purpose.
COCHRANE, JAMES CRAIG -	1255	23rd April 1869	An improved mode of and apparatus for preventing the bursting of steam-boilers. (Patented by Henry Edward Newton.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
COCHRANE, JOHN - - -	3345	20th Nov. 1869	Pipes, tubes or conduits for the conveyance of letters, parcels and other objects by pneumatic agency.
COCHRANE, WILLIAM - -	2889	5th Oct. 1869	Apparatus used in getting coal, stone and other minerals.
COCHRANE, WILLIAM MAR- [SHALL.	508	19th Feb. 1869	Improvements in vessels for containing water and other liquids, and in means for suspending and carrying the same.
COCKBURN-MUIR, WILLIAM [JOHN.	2521	25th Aug. 1869	Construction of the permanent way of railways and tramways.
COCKCROFT, THOMAS - -	1366	4th May 1869	Improved means and method of hanging window sashes.
COCKE, ALEXANDER - -	1382	5th May 1869	Improvements in apparatus for ventilating railway and other carriages, which improvements are also applicable to ventilating apartments and other places, and to creating draft in chimnies.
COCKER, FREDERICK STIVENS	2076	13th Sept. 1869	Velocipedes.
COCKEY, FRANCIS CHRISTOPHER	1874	18th June 1869	Improvements in steam-boilers and in the setting thereof.
COCKEY, FRANCIS CHRISTOPHER	2739	31st Sept. 1869	Apparatus for scurfing retorts.
COCKEY, FRANCIS CHRISTOPHER	3588	11th Dec. 1869	Improvements in steam-boilers and in the setting thereof.
COCKEY, HENRY - - -	1874	18th June 1869	Improvements in steam-boilers and in the setting thereof.
COCKEY, HENRY - - -	2739	21st Sept. 1869	Apparatus for scurfing retorts.
COCKEY, HENRY - - -	3588	11th Dec. 1869	Improvements in steam-boilers and in the setting thereof.
COCKING, EDMUND - -	2347	6th Aug. 1869	Improvements in the construction of easy chairs and in the ornamental nails for the upholstery of the said chairs, which said improvements wholly and separately are also applicable to reclining seats, couches, wheel chairs and other articles of furniture.
COCKROFT, EZRA - - -	926	27th March 1869	Looms for weaving.
COCKSHOOT, JOSEPH, junior -	1667	31st May 1869	Certain improvements in the construction of carriage axles and axle boxes.
COFFIN, ZEBULON ERASTUS -	1557	20th May 1869	Stop-cocks or valves.
COGENT, LAURENT - -	1411	8th May 1869	Horse collars. (Patented by Bristow Hunt.)
COIGNET, FRANÇOIS -	884	23rd March 1869	Artificial stone blocks applicable to streets, railways and building purposes. (Patented by John Henry Johnson.)
COINE, VICTOR - - -	2126	15th July 1869	A vertical aero-hydraulic engine with a double action.
COIT, SAMUEL - - -	625	1st March 1869	An improved lawn mowing machine. (Patented by William Robert Lake.)
COLBURN, ZERAH - -	2512	24th Aug. 1869	Construction and mode of launching sub-aqueous ways.
COLE, DAVID - - -	1768	8th June 1869	Anchors.
COLE, MORTIMER GEORGE -	657	4th March 1869	Watches and other time-pieces.
COLEMAN, ALFRED - -	2913	7th Oct. 1869	Latches or locks applicable especially to railway carriage doors.
COLEMAN, WATERS - -	1980	1st July 1869	Feeding bottles.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
COLEMAN, WATERS - -	2913	7th Oct. 1869	Latches or locks applicable especially to railway carriage doors.
COLES, COWPER PHIPPS - -	106	13th Jan. 1869	Improved means of protecting the bottoms of ships or other submerged structures, from fouling.
COLES, THOMAS - - -	2578	31st Aug. 1869	Construction of the running wheels of carriages and other vehicles mounted on wheels, and wheels and riggers used in machinery.
COLEY, THOMAS - - -	2527	25th Aug. 1869	Improved means or appliances to be employed in the cultivation of hops.
COLLARD, EMILE - - -	1047	7th April 1869	An improvement in ladies' bustles and crinolines. (Communicated by Mesdames Duvergès, Sisters.)
COLLETTE, AUGUSTE - -	1915	23rd June 1869	Improvements in the method of extracting the juices of beetroot, applicable to the manufacture of sugar and to distilling purposes, and in apparatus for the purpose. (Patented by William Spence.)
COLLINGRIDGE, AUGUSTUS -	2712	17th Sept. 1869	Mode of stowing and laying submarine telegraph cables.
COLLINS, CHARLES HOWARD -	486	17th Feb. 1869	Construction of the permanent way of railways. (Patented by Frank Howard Collins.)
COLLINS, FRANK HOWARD -	486	17th Feb. 1869	Construction of the permanent way of railways. (Communicated by Charles Howard Collins.)
COLLINS, FRANK HOWARD -	3604	13th Dec. 1869	An improvement in the manufacture of iron and steel. (Patented by Robert John Carpenter.)
COLLINS, GEORGE - - -	3029	18th Oct. 1869	Carding-engines.
COLLINS, JOHN - - -	3703	22nd Dec. 1869	Improvements in embroidering or sewing, and in the machinery or apparatus employed therefor.
COLLINSON, THOMAS ANTWIS	436	12th Feb. 1869	Improvements in and in the manufacture of buttoned and other like boots.
COLLIS, RICHARD - - -	2779	24th Sept. 1869	Means of propelling velocipedes, also applicable for other purposes.
COLLISON, THOMAS - - -	1532	18th May 1869	Velocipedes.
COLLS, ROBERT JOSEPHUS -	1082	9th April 1869	Fastenings for boots, shoes and other articles.
COLLYER, ROBERT HANHAM -	3155	30th Oct. 1869	Machinery for breaking, softening and preparing flax and other fibrous materials. (Patented by Alexander Patrick Wright.)
COLNEY, FERDINAND CON- [STANT.	2333	4th Aug. 1869	Improved mechanism for the propulsion of vehicles.
COLOMBIER, FELIX ADOLPHE [DUSARGUES DE.	1569	21st May 1869	Machinery for cutting wood or other substances. (Patented by John Garrett Tongue.)
COLVILLE, DAVID - - -	2658	9th Sept. 1869	An improved mode of and apparatus for producing printing surfaces.
COMBE, JAMES - - -	868	22nd March 1869	Improvements in transmitting rotary motion, applicable specially to machinery for preparing and spinning flax and other fibrous substances.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
COMBE, JAMES - - -	3425	26th Nov. 1869	Machinery for hackling flax and other fibrous substances.
COMBET, PAUL - - -	891	24th March 1869	An improved sunshade applicable to hats and certain other head coverings. (Patented by William Harrison.)
COMBLAIN, HUBERT - - -	929	27th March 1869	Breech-loading fire-arms. (Patented by Henry Haschke.)
COMTE, JOSEPH LE - - -	451	13th Feb. 1869	Method of and apparatus for constructing and forming metallic joints or seams of tin or other sheet metal. (Patented by Edward Griffith Brewer.)
CONANT, HEZEKIAH - - -	2368	7th Aug. 1869	Machinery for combing fibrous materials. (Patented by William Robert Lake.)
CONNELL, EDWARD O' - - -	987	1st April 1869	Apparatus for supplying nourishment to infants, invalids and others.
CONNELL, WILLIAM - - -	3177	2nd Nov. 1869	Waterclosets.
CONNER, PHILIP SYNG PHYSICK	3095	25th Oct. 1869	An improved adhesive compound and its application to stamps, labels, wrappers, envelopes and other like articles. (Patented by John Henry Johnson.)
CONSTERDINE, JAMES - - -	2555	28th Aug. 1869	Certain improvements in portable drilling machinery, parts of which are applicable to machines for other purposes.
CONVERSE, MACK DELORIMER	2213	21st July 1869	A new tool or apparatus for holding and driving brads. (Patented by Henry Edward Newton.)
CONWAY, JOHN - - -	1350	1st May 1869	Forge fires.
COOK, HARRY WHITESIDE -	698	8th March 1869	An improved mode or modes of and apparatus for regulating clocks.
COOK, HARRY WHITESIDE -	2474	18th Aug. 1869	Turret and other large clocks.
COOK, KIRBY - - -	1741	5th June 1869	Apparatus for decorticating and cleaning grain and seed.
COOK, SIMON SABIN - - -	363	5th Feb. 1869	Mules for spinning yarns. (Patented by Alexander Clark.)
COOK, THOMAS - - -	117	14th Jan. 1869	Presses for expressing oils and other liquids.
COOK, THOMAS - - -	208	22nd Jan. 1869	Mode of and apparatus for producing and applying motive-power, also applicable for measuring the flow of gas and other fluids.
COOK, WALTER - - -	1796	10th June 1869	Improvements in apparatus for taking photographic pictures by which the operator can take a number of prepared sensitive plates and expose them successively without the aid of extra changing box or bag.
COOKE, JAMES - - -	572	24th Feb. 1869	The use of one or more steam jets with or without water for obtaining vacuum power, applicable to steam and other motive engines, also to other purposes in paper, chemical, iron, steel and other works and manufactures.
COOKE, JAMES - - -	642	3rd March 1869	A circulating heat motive-power engine.
COOKE, JOHN - - -	767	12th March 1869	Ploughs.
COOKE, JOHN FREDERIC -	47	7th Jan. 1869	Manufacture of copying ink.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
COOLEY, ROBERT BARLOW -	1696	2nd June 1869	Improvements in the manufacture of hats or other coverings for the head, and in machinery or apparatus employed in such manufacture.
COOMBS, - - - - -	1081	9th April 1869	Presses for compressing and packing cotton, wool, hay, hides and other fibrous and plastic substances. (Patented by Robert Joseph Morison.)
COOPER, CHARLES HENRY -	748	11th March 1869	Certain improvements in whip sockets.
COOPER, EDWARD - - -	1163	15th April 1869	Manufacture of waterproof coats and other waterproof articles of dress worn externally.
COOPER, EDWARD - - -	1313	28th April 1869	Ventilating hats.
COOPER, JOHN PAGE - -	1294	27th April 1869	Construction of nuts and bolts.
COOPER, JOSEPH ROCK - -	793	15th March 1869	Breech-loading fire-arms.
COOPER, WILLIAM - - -	424	10th Feb. 1869	Means or apparatus for communication between the passengers, guards and drivers of railway trains.
COOTE, FREDERICK - - -	2498	21st Aug. 1869	Velocipedes.
COPE, DAVID - - - - -	2041	7th July 1869	Apparatus to prevent waste of liquids in filling casks.
COPE, GEORGE - - - - -	862	22nd March 1869	An improved machine for twisting or spinning tobacco.
COPE, THOMAS - - - - -	2961	12th Oct. 1869	Machinery for twisting or spinning tobacco.
COPEMAN, EDWARD STEPHENS	1415	8th May 1869	An improved method of and apparatus for communicating between the several parts of railway trains.
COUELLE, FRANÇOIS - - -	1712	3rd June 1869	An improved safety bag for conveying despatches or other articles of value by sea. (Patented by Baldwin Fulford Weatherdon.)
CORBETT, SAMUEL - - - -	1492	15th May 1869	Velocipedes.
CORBETT, THOMAS - - - -	974	31st March 1869	Carts, waggons and drays.
CORBETT, THOMAS - - - -	1331	30th April 1869	Lubricators for steam-engines.
COREY, ALFRED BRAYMAN -	3615	14th Dec. 1869	Harness for looms. (Patented by William Edward Newton.)
CORMICK, JAMES MC - - -	3248	11th Nov. 1869	An improvement in the process of brewing malt and other substances.
CORNEBOIS, NATHALIE ORTRIC [WIDOW.]	1969	30th June 1869	An improved carriage spring. (Patented by William Edward Gedge.)
CORNELIUS, GEORGE FREDERICK	3335	19th Nov. 1869	Manufacture of paint and varnish.
CORRE, JEAN - - - - -	1246	22nd April 1869	Apparatus for effecting communication between the passengers and guard or between the guard and driver of a railway train. (Patented by William Robert Lake.)
COTTER, THOMAS YOUNG -	969	31st March 1869	Separating copper and bismuth from ores containing metals either separately or combined with other metals. (Patented by George Wells.)
COTTON, FRANCIS MICHAEL -	2986	14th Oct. 1869	Apparatus for facilitating the copying of drawings and other representations, forms or designs.
COTTON, STEPHEN - - - -	2244	23rd July 1869	Machinery for hackling flax and other fibrous substances.
COTTON, STEPHEN - - - -	3392	24th Nov. 1869	Machinery for preparing flax, hemp, worsted, silk and other fibrous substances.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
COUPER, JAMES BLACKWOOD [the younger.	2084	10th July 1869	Horse-shoes.
COURTAULD, SYDNEY - -	3089	23rd Oct. 1869	Improvements in machinery for breaking stone and ore, part of which improvements are applicable to hammers and pile driving machines, and other machines in which weights have to be raised and suddenly dropped.
COURTENAY, ROBERT HENE- [LADE.	1965	30th June 1869	Improved processes for producing printing surfaces.
COURTOIS, CHARLES - -	3296	15th Nov. 1869	Means and machinery for clipping horses and other animals. (Patented by Henri Adrien Bonneville.)
COURTOIS, FELIX - - -	3140	29th Oct. 1869	An improved method of and apparatus for moulding and casting metal columns. (Patented by Charles Denton Abel.)
COURTOIS, LOUIS LAURENT [FELIX.	973	31st March 1869	Envelopes. (Patented by Benjamin Joseph Barnard Mills.)
COUSIN, CHARLES LOUIS [JOSEPH.	825	18th March 1869	Improvements in fire arms and ordnance and in cartridges to be used therewith, which cartridges are also applicable to other fire arms, to the exploding of destructive engines of warfare and for use in mines. (Patented by John Henry Johnson.)
COUSIN, PAUL - - -	1227	21st April 1869	A new or improved method of and materials for the preparation of mural paintings. (Patented by Charles Denton Abel.)
COUSINS, JOHN JAMES -	2136	15th July 1869	Improved apparatus for indicating the points made and registering the number of games played at billiards and other games of skill.
COVENTRY, CHARLES - -	2285	28th July 1869	Improved apparatus for facilitating the grinding of the knives of harvesting machines. (Patented by Alfred Vincent Newton.)
COW, PETER BRUSEY, junior -	507	18th Feb. 1869	Manufacture of india-rubber suction and other pipes—and of hose, buckets, bags and such like vessels for conveying or holding water or other liquids.
COW, PETER BRUSEY, junr. -	1278	24th April 1869	Improvements in compounds containing india-rubber, gutta-percha or balata, and in the manufacture of such compounds.
COWAN, JOHN - - -	2424	13th Aug. 1869	Manufacture of soap.
COWAN, WILLIAM - - -	1960	29th June 1869	An improvement in locomotive engines.
COWGILL, JAMES - - -	3170	1st Nov. 1869	Improved means of preventing the escape of smoke from steam-boiler and other furnaces.
COWLMAN, WILLIAM JAMES -	1170	15th April 1869	Securing greater accommodation and facility in the use of school desks, tables and seats, which is also applicable for other purposes.
COWPER, EDWARD ALFRED -	2538	27th Aug. 1869	Improvements in treating cast iron for the production of wrought iron and steel therefrom, and in apparatus employed for that purpose.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
COWPER, EDWARD ALFRED -	2953	11th Oct. 1869	Improvements in treating cast iron for the production of wrought iron and steel therefrom, and in apparatus employed for that purpose.
COWPER, EDWARD ALFRED -	3599	13th Dec. 1869	Rotary sieves.
COX, JOHN - - -	834	18th March 1869	Velocipedes and modes of propulsion.
COXHEAD, WILLIAM - -	760	12th March 1869	Goloshes, shoes or overshoes made of india-rubber. (Communicated by Alexander Hutchinson.)
COYLE, PATRICK HENRY -	1646	28th May 1869	Brushes for cleaning the tubes of steam-boilers. (Patented by William Robert Lake.)
CRABOS, JEAN - - -	3197	4th Nov. 1869	Velocipedes. (Patented by William Edward Gedge.)
CRABTREE, JAMES - - -	1268	24th April 1869	Machinery for cutting shives, bungs, corks, spiles or other taper pegs.
CRADDOCK, EDWARD - -	132	15th Jan. 1869	An improved portable punch for punching metals.
CRAIG, ARCHIBALD FULTON -	1179	16th April 1869	Apparatus for cutting or dividing paste-board or other sheets to form cards and the like.
CRAIG, BRYCE - - -	202	22nd Jan. 1869	Apparatus or machinery for communicating and signalling between passengers, guards and drivers of railway trains.
CRAIG, ROBERT - - -	138	16th Jan. 1869	Machinery or apparatus for the manufacture of paper.
CRAIG, ROBERT - - -	1337	30th April 1869	Machinery for the manufacture of paper.
CRAIG, ROBERT - - -	2111	13th July 1869	Machinery or apparatus for paper making.
CRAIG, WILLIAM YOUNG -	1002	2nd April 1869	Safety lamps and apparatus employed in connection therewith.
CRAMPTON, THOMAS RUSSELL	3504	3rd Dec. 1869	Improvements in burning powdered fuel and in furnaces and apparatus for burning powdered fuel, also in adapting such furnaces for the melting and working of glass, iron, steel and other material, and to heating steam-boilers.
CRANCH, FREDERICK WINCH -	2498	21st Aug. 1869	Velocipedes.
CRANE, PATRICK MOIR - -	1464	13th May 1869	A new or improved composition for coating ships, boats and other surfaces, and for protecting and preventing the fouling thereof.
CRANSTON, JAMES - - -	1622	26th May 1869	Construction of glass houses for horticultural purposes.
CRAVEN, BENJAMIN - - -	975	31st March 1869	An improved brick and tile pressing machine.
CRAVEN, HIRAM - - -	975	31st March 1869	An improved brick and tile pressing machine.
CRAVEN, JONATHAN NOWELL	975	31st March 1869	An improved brick and tile pressing machine.
CRAWFORD, BARTHOLOMEW [CHARLTON.	630	1st March 1869	Steam-boilers or generators.
CRAWFORD, DAVID - - -	2763	23rd Sept. 1869	Pumps and mechanism connected therewith applicable to ships and other purposes.
CRAWFORD, GEORGE - - -	2283	28th July 1869	Apparatus for spinning or twisting and rolling tobacco.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
CREASE, JOHN FREDERICK -	3057	20th Oct. 1869	An improved method of attaching Roman, Portland or other like cements to iron or other substances.
CREASE, JOHN FREDERICK -	3470	30th Nov. 1869	Improvements in the construction of tank filters and in the conversion of tanks into filters.
CRICKMER, ROBERT - -	2848	1st Oct. 1869	An improved mode of and apparatus for preventing priming in steam-boilers, and for regulating the supply of steam therefrom.
CRISPE, SHEPHERD EDWARD -	2114	13th July 1869	Apparatus for heating by means of steam.
CRITCHLEY, GEORGE - -	400	9th Feb. 1869	Improvements in rocking chairs and elastic seats, applicable to other similar articles.
CRITCHLEY, JOHN - - -	2873	4th Oct. 1869	Construction of umbrellas, parasols and sunshades.
CROCE-SPINELLI, JOSEPH [EUSTACHE.	3380	23rd Nov. 1869	Means and apparatus for propelling and steering vessels.
CROCKFORD, CHARLES - -	2034	6th July 1869	Improvements in the mode of treating the ores of lead or products containing lead, either isolated or in combination with other metals or minerals, for the purpose of producing metallic lead and other metals and their compounds, and also in furnaces for carrying out the said operations.
CROCKFORD, CHARLES - -	3204	5th Nov. 1869	Improved modes of treating metallic ores and materials and obtaining metallic and chemical products therefrom, and for utilizing some of the waste products from smelting works, chemical works, tinplate works, galvanizing works and paper mills, and for improvements in furnaces and apparatus in carrying out the same.
CROFTS, JOHN - - -	409	10th Feb. 1869	Operating on fibres in machinery for the combing of wool or other fibres.
CROFTS, JOHN - - -	3313	17th Nov. 1869	An improvement in apparatus for combing wool or other fibres.
CROLL, ALEXANDER ANGUS -	3581	11th Dec. 1869	Treatment of ammoniacal liquor of gas-works to obtain therefrom salts of ammonia.
CROMBLEHOLME, WILLIAM -	1115	12th April 1869	Apparatus for registering the number of persons entering into and going out of public vehicles and buildings or places of amusement, or over bridges.
CROMPTON, JAMES - - -	3520	4th Dec. 1869	An improved self acting escape valve for drawing off the condensed fluids from steam-engines, pipes and other steam vessels.
CROSKEY, JOSEPH RODNEY -	608	27th Feb. 1869	Looms for weaving.
CROSLAND, JAMES STEAD -	2083	10th July 1869	Improvements in or applicable to marine and stationary steam-engines, boilers and furnaces.
CROSS, CHRISTOPHER - -	1438	11th May 1869	Velocipedes.
CROSS, JANE - - -	2404	11th Aug. 1869	Manufacture of dry soap for washing, cleansing, calendering and finishing cotton and cotton fabrics, wool and woollen fabrics and mixtures of the same.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
CROSS, WILLIAM - - -	3439	27th Nov. 1869	An improved manufacture of shawls.
CROSSLEY, CHRISTOPHER -	2403	11th Aug. 1869	Manufacture of size.
CROSSLEY, FRANCIS - -	2284	28th July 1869	An improved method or means of preventing metals from rusting or corroding.
CROSSLEY, LOUIS JOHN - -	218	23rd Jan. 1869	Means used in steaming printed yarns.
CROSSLEY, LOUIS JOHN - -	1110	10th April 1869	Valves for regulating the discharge of steam, air or other elastic fluids.
CROSSLEY, LOUIS JOHN - -	1591	22nd May 1869	Improvements in steaming yarns and in apparatus employed therein, part of which improvements are also applicable for regulating the pressure of steam and other fluids.
CROSSLEY, THOMAS - - -	2403	11th Aug. 1869	Manufacture of size.
CROSSLEY, WESLEY - - -	865	22nd March 1869	Shuttles.
CROSSLEY, WESLEY - - -	2258	26th July 1869	Shuttles.
CROSSLEY, WILLIAM GEORGE	864	22nd March 1869	Construction of wheels.
CROUZIÈRES, JULES - - -	3274	13th Nov. 1869	A new or improved composition to be used as a coating for preserving metal and other surfaces, also as a cement or luting. (<i>Patented by William Edward Gedge.</i>)
CROW, GEORGE ARTHUR - -	177	20th Jan. 1869	Radial and other drilling machines.
CROWE, EDWARD - - -	1326	29th April 1869	Applying the waste heat from reverberatory furnaces to the generation of steam.
CROWELL, EUGENE - - -	351	4th Feb. 1869	Traction railways. (<i>Patented by William Edward Newton.</i>)
CROWLY, MATTHIAS MORGAN	1296	27th April 1869	Organs.
CROWTHER, JOSEPH - - -	2127	15th July 1869	Construction of the seats of railway carriages so as to lessen the force of concussion when trains meet or run into each other.
CROWTHER, JOSEPH - - -	2128	15th July 1869	Working hoists.
CROWTHER, JOSEPH - - -	2129	15th July 1869	Velocipedes.
CRUTTENDEN, JOHN - - -	1001	2nd April 1869	Improved arrangements of mechanism for facilitating voting by ballot, and in the construction of parts of the apparatus in connection therewith.
CRYER, GEORGE - - -	239	26th Jan. 1869	Machinery for preparing, drawing and finishing wool, cotton and other fibres.
CUBLEY, WILLIAM - - -	1771	8th June 1869	Drawing boards.
CUDBIRD, JAMES - - -	1274	24th April 1869	Motive-power machinery.
CULPIN, THOMAS - - -	1078	9th April 1869	Reaping and mowing machines.
CULVER, JOSEPH EDWIN -	857	20th March 1869	Motive-power engines. (<i>Patented by Henry Edward Newton.</i>)
CUNLIFFE, RICHARD - - -	3343	20th Nov. 1869	Certain improvements in machinery for engraving cylinders used in printing.
CUNNINGHAM, ALBERT BER [WICK.	201	22nd Jan. 1869	Apparatus for throwing horses and other cattle for veterinary purposes.
CUNNINGHAM, DAVID - - -	2290	29th July 1869	Improvements in treating and refining crude mineral, petroleum and other hydrocarbon oils, and in the means or apparatus employed therefor.
CUNNINGHAM, HENRY DUN- [CAN PRESTON.	2638	8th Sept. 1869	Improvements in means for lifting up and taking off heavy bodies on and from racks or stands or carriages, and in the construction of such stands or racks.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
CUNNINGHAM, JOHN - -	1283	26th April 1869	An improved machine or apparatus for cutting sandwiches or bread alone.
CUNNINGHAM, WILLIAM JOHN	902	24th March 1869	Obtaining motive-power.
CUNNINGHAM, WILLIAM JOHN	2753	22nd Sept. 1869	Obtaining motive-power.
CURLEY, EDWIN AUGUSTUS -	2383	10th Aug. 1869	Improvements in means or apparatus for the better or more direct and effective application of reciprocating or intermittent motive-power under certain circumstances, and which is especially applicable to lathes, sewing-machines, velocipedes and a great variety of manual and pedal apparatus.
CURRALL, JOHN - - -	1393	6th May 1869	Kitchen ranges.
CURRALL, JOHN - - -	2964	12th Oct. 1869	Kitchen ranges.
CURRALL, JOHN - - -	3478	1st Dec. 1869	Improvements in kitchen ranges and fire-places or stoves for cooking and heating, and in apparatus connected therewith.
CURRIE, PETER - - -	3732	24th Dec. 1869	Improvements in connection with machinery for tentering and drying woven fabrics.
CURRIE, WILLIAM - - -	1423	10th May 1869	Manufacture of cushions, seats, mattresses, life preservers, and other articles requiring to be stuffed.
CURRIE, WILLIAM - - -	2220	22nd July 1869	Manufacturing and fastening the soles and heels of boots and shoes.
CUSHION, JAMES CHARLES -	2794	25th Sept. 1869	Mill bills or chisels and picks for dressing millstones, marble and other stone.

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DACK, WILLIAM NATHAN -	985	1st April 1869	Improvements in and applicable to steam-engines.
DAFT, THOMAS BARNABAS -	2785	24th Sept. 1869	Watches and other time-keepers.
DAGLISH, JOHN - - -	59	8th Jan. 1869	Improved apparatus for lubricating the axles of coal tubs and other wagons running on rails or tramways.
DAGLISH, JOHN - - -	536	20th Feb. 1869	Ventilation of mines.
DAINES, WILLIAM - - -	503	18th Feb. 1869	Anchors.
DAINVILLE, LOUISE APPOLINE [OUDET DE. (la Marquise de Livry.)	2073	10th July 1869	An improved mode of measuring or dividing time, applicable to chronometers, sextants and other such like instruments. (Patented by Alexander Melville Clark.)
DALE, ABRAHAM - - -	1614	26th May 1869	An improved governor or regulator for steam-engines.
DALE, JOHN GALLEMORE -	2443	16th Aug. 1869	An improved method of producing white pigments from lead.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
DALE, THOMAS PELHAM -	3756	28th Dec. 1869	Improvements in the manufacture and purification of gas and in the utilization of waste and bye-products of gas works.
DALES, JOHN HANDSLEY -	1113	10th April 1869	Improvements in the mode of and in looms for weaving hair cloth and other fabrics.
DAMITTE, JEAN JACQUES GIL- [LET.	811	17th March 1869	Manufacture of pulp suitable for paper.
DANDURAN, JEAN JACQUES -	2318	2nd Aug. 1869	Apparatus for ventilating mines, drains and other places, and extracting noxious gases, smoke and vapours therefrom, such apparatus being also applicable for communicating sound. (Patented by Michael Henry.)
DANGERFIELD, BENJAMIN -	109	14th Jan. 1869	Certain improvements in keyless and stop work employed in chronographs and other similar timekeepers, for the measurement of fractional portions of time.
DANIA, GEORGE - - -	1235	22nd April 1869	Certain improvements in carding-engines.
DANKS, SAMUEL - - -	370	6th Feb. 1869	Puddling and other furnaces employed in the manufacture of wrought iron and steel. (Patented by William Robert Luke.)
DANKS, SAMUEL - - -	386	8th Feb. 1869	An improved lining for puddling and other furnaces. (Patented by William Robert Luke.)
DARKE, JOHN THOMAS -	826	18th March 1869	Treating sewage and the manufacture of manure therefrom.
DARLINGTON, JOHN - -	492	18th Feb. 1869	Mineral and rock drilling apparatus.
DARMSTÄDTER, L. - - -	89	12th Jan. 1869	Production of colors from naphthaline. (Patented by Astley Paston Price.)
DARNBROUGH, ENOCH - -	3141	29th Oct. 1869	Lubricators for steam-engine cylinders or other purposes where steam can be applied to melt tallow for lubrication.
DARNBROUGH, LEVI - -	3141	29th Oct. 1869	Lubricators for steam-engine cylinders or other purposes where steam can be applied to melt tallow for lubrication.
DARNBROUGH, MARK - -	3141	29th Oct. 1869	Lubricators for steam-engine cylinders or other purposes where steam can be applied to melt tallow for lubrication.
DARRACH, SAMUEL A. - -	3022	16th Oct. 1869	Machinery or apparatus for heating and delivering metal bars. (Patented by Albert Angell and Joseph John Perry.)
DATE, FREDERICK HAVILLE -	1976	30th June 1869	Means or apparatus for preserving animal and vegetable substances. (Patented by James Robinson.)
DAUZATS, DOMINIQUE HECTOR	2695	15th Sept. 1869	A novel, instructive and amusing geographical game and apparatus therefor. (Patented by William Edward Gedge.)
DAUZATS, GUILLAUME - -	3069	21st Oct. 1869	Colored or illustrated dominoes with central number.
DAVEY, HENRY - - -	48	7th Jan. 1869	Apparati for raising and injecting water and for feeding boilers.
DAVEY, HENRY - - -	971	31st March 1869	Improvements in hydraulic machinery and in means of actuating the same, part of which is applicable to steam-engines.
DAVEY, JOHN - - -	516	19th Feb. 1869	Construction of motive-power engines.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
DAVIES, DAVID - - -	626	1st March 1869	Apparatus for getting coal, stone, slate or mineral.
DAVIES, DAVID - - -	2830	29th Sept. 1869	Certain improvements in furnaces for steam-boilers and other purposes.
DAVIES, EDWARD - - -	2375	9th Aug. 1869	An improved arrangement of mechanism or apparatus to be employed for the purpose of "dressing" or distributing the different qualities of ground or pulverized grain into compartments or chambers.
DAVIES, ISAIAH - - -	2330	3rd Aug. 1869	Rotary gas exhausters.
DAVIES, JAMES WASS - - -	3138	29th Oct. 1869	Apparatus for singeing horses.
DAVIES, ROBERT - - -	3176	2nd Nov. 1869	Mechanism or machinery for transmitting motive-power.
DAVIS, ALFRED MAY - - -	2589	1st Sept. 1869	Improved aerated alcoholic drinks.
DAVIS, DAVID WILLIAMSON -	1976	30th June 1869	Means or apparatus for preserving animal and vegetable substances. (Patented by James Robinson.)
DAVIS, EPHRAIM - - -	1663	29th May 1869	Velocipedes.
DAVIS, GEORGE DANIEL -	3225	9th Nov. 1869	Machinery for working rudders.
DAVIS, JOHN HENRY - - -	1587	22nd May 1869	Ships' compasses.
DAVIS, JOHN HENRY - - -	2780	24th Sept. 1869	Ships' compasses.
DAVIS, RICHARD - - -	459	15th Feb. 1869	An improved signaling apparatus used in hand signal lamps.
DAVIS, RICHARD - - -	2421	13th Aug. 1869	An improved signalling apparatus used in hand signal lamps.
DAVIS, SAMUEL HENRY - -	1976	30th June 1869	Means or apparatus for preserving animal and vegetable substances. (Patented by James Robinson.)
DAVIS, WENDEL THORNTON -	1612	26th May 1869	Tools for cutting glass and other vitreous substances. (Patented by Martin Benson.)
DAVIS, WILLIAM - - -	607	27th Feb. 1869	An improvement in the construction of winding machinery or apparatus employed in mines, shafts, pits or lifts and inclined planes.
DAVIS, WILLIAM - - -	2059	8th July 1869	An improvement in the treatment of tallow used in the manufacture of candles and soap.
DAVIS, WILLIAM - - -	2411	12th Aug. 1869	Machinery or apparatus for stamping, crushing and grinding ores and such like substances.
DAVISON, F. - - -	2939	9th Oct. 1869	Nail-making machines. (Patented by John Henry Johnson.)
DAW, THOMAS GEORGE - -	306	1st Feb. 1869	An improved machine for forming stereotype matrices.
DAWES, WILLIAM - - -	35	5th Jan. 1869	Steam-engines.
DAWSON, CHARLES SORBY -	367	6th Feb. 1869	An elastic stamp for printing on paper, linen, parchment, wood, stone, glass, metal or any other suitable material.
DAWSON, JOHN - - -	2219	22nd July 1869	Raising gigs used in the process of raising the nap of woollen cloth or other fabrics.
DAWSON, RICHARD - - -	3313	17th Nov. 1869	An improvement in apparatus for combing wool or other fibres.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
DAWSON, STEPHEN - -	2375	9th Aug. 1869	An improved arrangement of mechanism or apparatus to be employed for the purpose of "dressing" or distributing the different qualities of ground or pulverized grain into compartments or chambers.
DAY, JOHN - - - -	2592	2nd Sept. 1869	Means of raising or closing the glasses or shutters of carriage doors and windows.
D'ADELSWÄRD, GUSTAVE [BARON.	3321	18th Nov. 1869	Improved apparatus for the removal of dross out of blast furnaces.
D'ALMAS, JEAN AUGUSTE [COMBE.	753	11th March 1869	Improvements in the preparation of artificial fuel and in the manufacture of gas and coke therefrom. (Patented by John Henry Johnson.)
D'ALMAS, JEAN AUGUSTE [COMBE.	3775	30th Dec. 1869	Production of cast-iron, iron and steel. (Patented by John Henry Johnson.)
D'ARLINCOURT, LUDOVIC CHARLES ADRIEN JOSEPH GUYOT.	1920	23rd June 1869	Electric telegraph apparatus. (Patented by Alexander Melville Clark.)
D'ARTOIS ETIENNE - -	343	4th Feb. 1869	An improved inkstand.
D'AZAMBUJA, ANTONIO - -	1122	12th April 1869	Manufacture of felted fabrics.
DE BALLYHIGUE, JOSEPH ATHÉNIAS PHILIPPE AUGUSTE DE CANTILLON.	11	2nd Jan. 1869	Improvements in certain vehicles commonly known as "velocipedes." (Patented by John Henry Johnson.)
DE BANVILLE, ALFRED - -	2394	10th Aug. 1869	An improved match-box candlestick. (Patented by Felix Mazet.)
DE BEAUMONT, EDOUARD - -	2159	17th July 1869	Breech-loading fire-arms. (Patented by Henry Edward Newton.)
DE BERGMÜLLER, ADOLPHE - -	1902	22nd June 1869	Apparatus or machinery for opening and closing gates, doors or barriers, and for actuating semaphore signals by means of electricity. (Patented by Charles Denton Abel.)
DE BERGUE, CHARLES - -	189	20th Jan. 1869	Locomotives and other railway carriages.
DE BERGUE, CHARLES - -	882	23rd March 1869	Improvements in and in apparatus for making holes in metal.
DE BERGUE, CHARLES - -	2135	15th July 1869	Locomotives and other railway carriages. (Partly communicated by Camille Faure.)
DE BERGUE, CHARLES - -	2799	27th Sept. 1869	Improved mode of and apparatus for utilising man's muscular power when employed in driving machinery.
DE BODMER, ELISABETH [HATNER.	2332	4th Aug. 1869	Construction of carriage wheels.
DE BOWENS, FRANÇOIS - -	887	23rd March 1869	Machinery for making match splints and other similar articles.
DE CHAVANNES, HENRI PAUL	2035	6th July 1869	Apparatus for heating and distilling water for boiler and other purposes. (Patented by Clinton Edgcumbe Brooman.)
DE COLOMBIER, FELIX [ADOLPHE DUSARGUES.	1569	21st May 1869	Machinery for cutting wood or other substances. (Patented by John Garrett Tongue.)
DE DAINVILLE, LOUISE APPO- [LINE OUDOT. (la Marquise de Livry.)	2073	10th July 1869	An improved mode of measuring or dividing time, applicable to chronometers, sextants and other such like instruments. (Patented by Alexander Melville Clark.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
D'ESTAINS, CLÉMENCE - -	1310	28th April 1869	A new and improved means of concentrating the caloric of heated water used for bathing purposes. (Patented by Henri Adrien Bonneville.)
DE GARRS, HENRY - - -	1501	17th May 1869	Gas pendants and chandeliers.
DE GOËSBRIAND, MARC [HYACINTHE.	1596	24th May 1869	Steam motors.
D'HEUREUSE, RUDOLPH - -	230	25th Jan. 1869	An improvement in fermenting substances and germinating grain and seeds. (Patented by Alfred Vincent Newton.)
D'HEUREUSE, RUDOLPH - -	751	11th March 1869	An improved attachment for adjusting cords, for hanging pictures, mirrors, glasses and for other analogous purposes. (Patented by William Edward Newton.)
D'IVERNOIS, EARDLEY LOUIS [CHARLES.	917	25th March 1869	An improved electro-magnetic machine. (Patented by William Robert Lake.)
DE LA MARTELIÈRE, ALFRED [CAMILLE.	3030	23rd Oct. 1869	A new or improved manufacture of metallic tiles or slates for roofing. (Patented by Charles Denton Abel.)
DE LA RUE, JULES MARIE -	425	10th Feb. 1869	An improved water velocipede. (Patented by William Robert Lake.)
DE LA RUE, WILLIAM FREDÉ- [RICK.	1462	12th May 1869	An improved method of obtaining a water mark on paper and in apparatus employed therein.
DE LAGILLARDAIE, EDOUARD	3160	1st Nov. 1869	Construction of suction siphons for raising liquids and producing condensations and evaporations in vacuum.
DE LAIRE, GEORGES ERNEST [CAMILLE.	3675	18th Dec. 1869	Treatment of aromatic secondary monamines for obtaining coloring matter. (Patented by George Tomlinson Bousfield.)
DE LÉON, EMMANUEL BARTE- [LEMY.	2909	6th Oct. 1869	Printing without heat upon wood used for cases, bars or heads of casks and packages of all kinds, any mark, countermark, inscription or drawing in relief, in sunken or in surface impression, in one or several varied colours as well as in gold and silver, for trade purposes generally, and particularly for the wine and spirit trade, in lieu and place of the marking obtained by hot brand and open vignette.
DE LIANCOURT, CALLISTUS [AUGUSTUS COUNT DE GODDES.	2104	13th July 1869	Life belts.
DE LIVRY, LA MARQUISE (née Louise Appoline Oudot de Dainville).	2073	10th July 1869	An improved mode of measuring or dividing time, applicable to chronometers, sextants and other such like instruments. (Patented by Alexander Melville Clark.)
DE LORIÈRE, CHARLES ERNEST	1764	7th June 1869	Buttons and studs for fastening cuffs, wristbands and other articles of dress.
DE MESNIL, BARON OSCAR -	2064	9th July 1869	Means or apparatus for propelling canal boats and other vessels. (Patented by Hunter Henry Murdock.)
DE MEYRIGNAC, HENRI PAUL	3531	7th Dec. 1869	A new or improved tubular apparatus for brushing and wet-rubbing hair.
DE MORELL, BERNARD BEN- [VENUTO.	3610	14th Dec. 1869	An improved method of raising navigable vessels or other heavy bodies above the surface of the water.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
DE MÜLLER, AUGUSTE - -	1999	2nd July 1869	Mode of and materials for preparing corks for rendering them impermeable under the action of wines and other liquids, either when charged with gases or not. (Patented by Charles Denton Abel.)
DE PINDRAY, ALFRED - -	827	18th March 1869	Steam-boiler and other furnaces.
DE SINÇAY, LOUIS ALEXANDRE [CALLEY ST. PAUL.	399	9th Feb. 1869	Metallic tubes for roofing purposes.
DE STAINS, VICTOR - -	1463	13th May 1869	Wheels, treadles and brakes principally applicable to bicycles and other light carriages.
DE VALORY, HENRI GUIBERT	1661	29th May 1869	A novel liquefiable compound substance to be used for extinguishing fires.
DE WAHLFELDT, FREDERIC -	3171	1st Nov. 1869	Guns for bayonet drill. (Patented by Peter Jensen.)
DE WOLF, AUSTIN - - -	1612	26th May 1869	Tools for cutting glass and other vitreous substances. (Patented by Martin Benson.)
DEAN, SAMUEL BUEL - -	1430	10th May 1869	Bronze ordnance. (Patented by William Robert Lake.)
DEAS, JAMES - - - -	2415	12th Aug. 1869	Lifting jacks for lifting railway rails.
DEAS, JAMES - - - -	3575	10th Dec. 1869	Tramways.
DEAUBEUF, VICTOR ADOLPHE	2045	7th July 1869	Machinery or apparatus for compressing and moulding small coal and other matter or material for which great pressure is required.
DEBLON, ANTOINE JULIEN -	1918	23rd June 1869	Machines for callendering stuffs.
DEBRY, JOSEPH - - -	210	22nd Jan. 1869	Improvements in machines for cutting into slate in quarries, applicable also to machines for cutting in coal pits, mines and stone quarries. (Patented by William Edward Gedge.)
DECHAMP, GERAUD - -	610	27th Feb. 1869	Machinery or apparatus for measuring raw silk. (Patented by John Henry Johnson.)
DEE, HENRY WILLIAM - -	1187	17th April 1869	Making bottles, jars and similar articles air and liquid tight.
DEFRIES, DANIEL NATHAN -	2163	17th July 1869	Gas meters.
DEFRIES, HENRY - - -	2606	4th Sept. 1869	A novel application of glass to decorative or ornamental purposes.
DEGIVRY, JEAN - - -	719	9th March 1869	Improved fabrics or materials applicable as umbrella and parasol coverings and for other purposes. (Patented by Alexander Melville Clark.)
DEHAYNIN, FELIX - - -	227	25th Jan. 1869	Construction of cocks or valves. (Patented by Clinton Edgcumbe Brooman.)
DEICHMANN, THEODOR - -	3086	23rd Oct. 1869	Preserving meat. (Communicated by Ferdinand Cassel.)
DELACOURT, LOUIS - -	979	31st March 1869	A novel method of fastening belts or bands by means of buckles with shifting wedges. (Patented by William Edward Gedge.)
DELACROIX, FÉLIX - - -	650	3rd March 1869	A new and improved apparatus for doubling stuffs, tissues and such like articles. (Patented by Henri Adrien Bonneville.)
DELACROIX, FERDINAND -	3309	16th Nov. 1869	An improved metallic manometer.
DELANDTSHEER, NORBERT -	2504	23rd Aug. 1869	Combing machines.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
DELANGRE, LAURENT - -	1452	12th May 1869	Improvements in the method and process of producing impressions upon tin andterne plates and sheets of metal, and in furnaces or ovens for heating and drying plates or sheets which have received the required impressions. (Patented by Philip William Flower and Wickham Flower.)
DÉLATTRE, HENRY - - -	776	13th March 1869	A new kind of tissue.
DELAURIER, EMILE JOSEPH -	1441	11th May 1869	Galvanic batteries. (Patented by Charles Denton Abel.)
DELAYE, JEAN BAPTISTE -	3633	15th Dec. 1869	Means or apparatus for reducing friction. (Patented by John Henry Johnson.)
DELBREIL, FREDERIC - -	506	18th Feb. 1869	Apparatus for the removing and facilitating the utilization of excrementitious or other refuse matter which passes into the sewers, or is deposited in cesspools or elsewhere in cities, towns and other localities.
DELIGNY, ERNEST - - -	1224	21st April 1869	An improved mode of obtaining pyrophosphate of lime. (Patented by Michael Henry.)
DELONG, ROBERT ASAPH -	3616	14th Dec. 1869	Rotary engines. (Patented by William Edward Newton.)
DEMANCE, ERNEST - - -	670	5th March 1869	An improved process and improved apparatus having for object to preserve from oxydation iron ships and metallic surfaces, or those of copper or iron with which wooden ships are sheathed, also applicable for testing the qualities and the homogeneity of metals. (Patented by William Edward Gedge.)
DEMULDER, EMILE - - -	1280	26th April 1869	An improved apparatus for carding tow. (Patented by George White.)
DENANS, JEAN BAPTISTE -	2240	23rd July 1869	Joints of pipes and tubes. (Patented by John Henry Johnson.)
DENAVARRO, JOSE FRANCISCO	1088	9th April 1869	Rotary engines, pumps and meters. (Patented by Alfred Vincent Newton.)
DENBEIGH, CHARLES - -	1789	10th June 1869	Improvements in the construction of velocipedes and in the manner of driving and guiding them.
DENHOLM, WILLIAM FORREST	3484	1st Dec. 1869	Improvements in the straining of paper pulp and in the machinery, mechanism or apparatus therefor or connected therewith.
DENIS, JEAN - - - -	1080	9th April 1869	An improved machine for cutting, dividing and turning straight and conical cogs of wood or metal without displacing the cog-wheel.
DENIS, JULIEN - - - -	3418	26th Nov. 1869	Means of and machinery for producing pulp from wood and other fibrous substances for the manufacture of paper.
DENNE, THOMAS JAMES - -	2718	18th Sept. 1869	Improved means of producing transfers and blocks for lithographic and other printing.
DENNELL, GEORGE WRIGHT -	395	9th Feb. 1869	Machinery or apparatus for cutting to shape the soles and heels for boots and shoes.
DENNELL, JAMES - - - -	395	9th Feb. 1869	Machinery or apparatus for cutting to shape the soles and heels for boots and shoes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
DENNIS, LOUIS HENRY - -	1815	14th June 1869	An improved apparatus for cutting or dividing glass.
DENNIS, WILLIAM - - -	211	22nd Jan. 1869	Letter boxes, letter pillars and such like depositories.
DENNIS, WILLIAM - - -	2228	22nd July 1869	Letter boxes, letter pillars and such like depositories.
DERHAM, RICHARD - - -	3768	30th Dec. 1869	An improved machine or apparatus for washing potatoes and other like vegetable substances.
DERMOTT, CHARLES M ^c . -	892	24th March 1869	An improved press for applying combined eyelets and paper fasteners, and the ordinary shoe eyelets.
DERRIEN, EDOUARD - - -	449	13th Feb. 1869	Improved apparatus for heating, applicable to generating steam, cooking food and heating for various other domestic purposes. (Patented by William Edward Newton.)
DERVAUX, ALFRED - - -	3376	23rd Nov. 1869	A new and improved steam-boiler supply cock. (Patented by Henri Adrien Bonneville.)
DES CHÊNES, EDMOND PHILIPPE [BERT JEAN LOUIS TERREL.	2735	20th Sept. 1869	Apparatus for heating wines and other fermentable liquids, parts of such apparatus being also applicable to other purposes. (Patented by William Armand Gilbee.)
DESIRÉ, ARMAND - - -	3633	15th Dec. 1869	Means or apparatus for reducing friction. (Patented by John Henry Johnson.)
DESNOIX, CHARLES JULIEN -	374	6th Feb. 1869	A new and improved compound for preparing jelly broth. (Patented by Henri Adrien Bonneville.)
DESPIAU, THÉODORE - - -	256	27th Jan. 1869	Keys or wedges to be employed in the permanent way of railways, and for other like purposes. (Patented by John Henry Johnson.)
DESTOUY, AUGUSTE - - -	1856	16th June 1869	Means or apparatus for sewing boots and shoes.
DESUMEUR, JEAN CHRYSOS- [TOME.	87	12th Jan. 1869	An improvement in power looms. (Patented by William Edward Gedge.)
DESUMEUR, JEAN CHRYSOS- [TOME.	979	31st March 1869	A novel method of fastening belts or bands by means of buckles with shifting wedges. (Patented by William Edward Gedge.)
DESVIGNES, GEORGE FRANCIS [GABRIEL.	401	9th Feb. 1869	Steam-boilers.
DEVAUCHELLE, CHARLES -	2682	14th Sept. 1869	A novel construction of vehicle for locomotion by land and water. (Patented by William Edward Gedge.)
DEWAR, JAMES - - -	1083	9th April 1869	Treating certain substances for food and for manure.
DEWAR, JAMES - - -	2092	12th July 1869	Treating certain substances for food and for manure.
DEWAR, JAMES - - -	3163	1st Nov. 1869	Treatment and application of paper waste.
DEWAR, JAMES - - -	3164	1st Nov. 1869	Manufacture of artificial fuel.
DEWE, JOHN - - -	2250	24th July 1869	Improvements in mail bags and in apparatus for fastening such bags, boxes and other receptacles or articles where the security of a seal is required.
DEWE, JOHN - - -	2846	30th Sept. 1869	Improvements in the construction of locks and in apparatus for indicating the number of times the lock has been opened.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
DEZARNAUD, LOUIS - -	2459	17th Aug. 1869	Pen-holders. (Patented by William Robert Lake.)
DIARMID, THOMAS GIFFORD [M ^c .	3735	24th Dec. 1869	Improvements in the rig of ships and vessels, and in the mechanism or apparatus for reefing and furling the sails of ships and vessels.
DICK, JOHN - - -	1602	25th May 1869	Rolls for rolling-mills.
DICK, WILLIAM BRUCE - -	1253	23rd April 1869	Apparatus for extinguishing fires.
DICKIE, JAMES - - -	716	9th March 1869	Arrangements for uniting the parts of grates, ranges, stoves and other cast-iron articles or structures.
DICKINSON, BENJAMIN - -	1555	19th May 1869	Improvements in propelling and manœuvring vessels, and in the apparatus employed for such purposes. (Patented by Alan Lawrie M ^c Gavin.)
DICKINSON, BENJAMIN - -	1556	19th May 1869	Constructing and propelling ships and other vessels. (Patented by Alan Lawrie M ^c Gavin.)
DICKINSON, JOHN - - -	129	15th Jan. 1869	An improved fastener for doors and windows. (Patented by William Henry Brookes.)
DIETZ-MONNIN, CHARLES [FREDERIC.	1565	20th May 1869	An improved portable coffee mill. (Patented by Henry Edward Newton.)
DILL, JOSEPH - - -	2087	10th July 1869	An improved method of producing marquetry and other divers-coloured wood-work. (Patented by William Robert Lake.)
DILL, JOSEPH - - -	2090	10th July 1869	An improved machine for sawing, grooving, moulding, dovetailing and otherwise working wood. (Patented by William Robert Lake.)
DILLON, THOMAS ARTHUR -	965	31st March 1869	Improved methods of and apparatus for utilizing the waste steam of locomotive engines.
DILLON, THOMAS ARTHUR -	3281	13th Nov. 1869	An improved safety lamp.
DINSDALE, JOHN - - -	221	23rd Jan. 1869	Spinning and twisting machinery.
DISHART, DAVID - - -	1845	15th June 1869	Sewing-machines.
DISSTON, HENRY - - -	3366	23rd Nov. 1869	Machinery or apparatus for grinding saws. (Patented by John Henry Johnson.)
DIXON, ADAM - - -	686	8th March 1869	Steam lubricators or greasers.
DIXON, HENRY GOULD - -	949	30th March 1869	Breaks and seats of velocipedes and apparatus connected therewith.
DIXON, JOHN - - -	219	23rd Jan. 1869	Improvements in the smelting of copper and in apparatus to be used therein. (Patented by Hunter Henry Murdoch.)
DIXON, STEPHEN - - -	3740	24th Dec. 1869	Manufacture or production of skirts, petticoats and other articles.
DOBSON, BENJAMIN - -	963	31st March 1869	Certain improvements in carding-engines.
DOBSON, BENJAMIN - -	1295	27th April 1869	Certain improvements in carding-engines. (Communicated by Ernest Constantine Pfaff.)
DOBSON, FREDERIC - -	3269	12th Nov. 1869	Manufacture or production of shawls made on lace machines.
DOBSON, WILLIAM BENNETT	3269	12th Nov. 1869	Manufacture or production of shawls made on lace machines.
DOCKRAY, JACOB - - -	1677	31st May 1869	Carding-engines.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
DOCKRAY, JACOB - - -	3332	19th Nov. 1869	Machinery for drying, dressing and finishing thread, twine, cords and ropes.
DODGE, JAMES - - -	3104	26th Oct. 1869	Machinery or apparatus for forging or shaping metals.
DODGEON, JOHN - - -	509	19th Feb. 1869	Looms for weaving.
DOE, ALFRED - - -	1170	15th April 1869	Securing greater accommodation and facility in the use of school desks, tables and seats, which is also applicable for other purposes.
DÖERING, FREDERICK BERNARD	3240	10th Nov. 1869	An improved construction of stand or carriage for rock boring or excavating machines.
DOIBIER, MARTIAL - -	2733	20th Sept. 1869	Velocipedes.
DOLBY, THOMAS GEORGE [FONNEREAU.	1468	13th May 1869	An improved apparatus or valve suitable for the admission of air to feeding bottles and for other useful purposes.
DOLLFUS, GUSTAVE - -	2820	28th Sept. 1869	Looms for weaving. (Patented by John Bullough.)
DOLLFUS, JEAN - - -	2820	28th Sept. 1869	Looms for weaving. (Patented by John Bullough.)
DONALD, JAMES - - -	1942	26th June 1869	Apparatus for finishing woven fabrics.
DONALD, JOHN MC - -	280	29th Jan. 1869	Stoppers or valves for bottles and other like vessels.
DONALDSON, JOHN - - -	1233	21st April 1869	Locking apparatus used for railway sidings, to prevent trucks or other carriages passing out from the sidings.
DONBAVAND, WILLIAM - -	3233	10th Nov. 1869	Balances for weighing.
DONNELL, WILLIAM MC -	108	14th Jan. 1869	Improvements in or in addition to churns, parts of which are applicable to other purposes.
DONOVAN, RICHARD EDWARD	620	1st March 1869	Improvements in treating tobacco and in apparatus employed for that purpose.
DONOVAN, RICHARD EDWARD	3073	22nd Oct. 1869	A new or improved apparatus for roasting tobacco for snuff, also applicable for roasting, baking, burning or drying coffee, malt and other granular, pulverous and vegetable substances.
DOOLEY, JOHN EDWARD -	3365	22nd Nov. 1869	Construction of pillar, post-office and other stationary or portable letter-boxes and bags.
DOR, NICHOLAS JOSEPH -	2719	18th Sept. 1869	A new method of and apparatus for manufacturing crucibles, muffles, gas-retorts, melting pots and other analogous vessels, through the agency of hydraulic presses.
DOREL, HENRY - - -	2452	17th Aug. 1869	Apparatus for dressing or preparing hides and for other purposes. (Patented by Henry Bernoulli Barlow.)
DORNING, WILLIAM - -	1998	2nd July 1869	An improved rotary steam-engine. (Patented by George White.)
DORSET, EDWARD - - -	510	19th Feb. 1869	Improvements in means and apparatus for heating, smelting and working metals, and in furnaces employed therein, which improvements are also applicable to heating and otherwise operating upon minerals and other substances.
DOTTERER, DAVIS HENRY -	2919	8th Oct. 1869	Axle boxes. (Patented by Dillwyn Parrish.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
DOUCHÉ, ALEXANDRE HECTOR	3016	15th Oct. 1869	A new or improved apparatus for regulating the supply of water to turbines and hydraulic wheels.
DOUGALL, ARTHUR M ^c - -	3410	25th Nov. 1869	Manufacture of blacking.
DOUGALL, COLIN M ^c - -	86	12th Jan. 1869	A ladies' umbrella and dress suspender.
DOUGALL, JAMES DALZIEL -	1984	1st July 1869	A new or improved apparatus for filling cartridges.
DOUGLAS, JAMES, junior -	480	15th Feb. 1869	Extracting copper from its ores. (Patented by Arthur Hornby Lewis.)
DOUGLAS, JAMES, junior -	2425	13th Aug. 1869	Extracting copper from its ores. (Patented by James Lewis.)
DOUGLAS, JOSEPH WILLIAM -	2685	14th Sept. 1869	An improvement in pumps. (Patented by William Edward Newton.)
DOUGLAS, ROBERT - -	3212	5th Nov. 1869	Motive-power engines.
DOUGLAS, WILLIAM HENRY -	1010	3rd April 1869	Manufacture of jet and other ornaments.
DOUGLAS, WILLIAM HENRY -	1056	7th April 1869	Glove fasteners.
DOUGLAS, WILLIAM HENRY -	1057	7th April 1869	An improved sleeve link or solitaire.
DOURLET, HIPPOLYTE ADRIEN	39	6th Jan. 1869	Manufacture of artificial flowers and foliage from vegetable parchment.
DOWALL, JAMES M ^c - -	3191	3rd Nov. 1869	Machinery for sawing and otherwise cutting timber.
DOWLER, GEORGE - - -	3533	7th Dec. 1869	Cartridges for breech-loading fire-arms.
DOWLING, EDMUND - -	1141	14th April 1869	Pianoforte actions.
DOWNIE, HAY - - -	922	27th March 1869	Shoes for horses.
DOWNIE, HAY - - -	1739	5th June 1869	Shoes for horses.
DOWNING, WILLIAM - -	3577	11th Dec. 1869	An improved breech-loading cartridge with lubricating ball.
DOWNES, JAMES - - -	3400	24th Nov. 1869	Improved hydraulic presses used for seed crushing, oil expressing and other similar purposes.
DOWSON, ALFRED - - -	1543	19th May 1869	Construction of foundations for piers, bridges and such like structures.
DOWSON, JOSEPH EMERSON, [the younger.]	1543	19th May 1869	Construction of foundations for piers, bridges and such like structures.
DRAKE, CHARLES - - -	736	10th March 1869	Improvements in machinery suitable for breaking stone to prepare it for the manufacture of concrete and for other purposes, also in machinery for mixing concrete.
DRAKE, CHARLES - - -	3743	24th Dec. 1869	An improved portable cooking stove.
DRAKE, JOHN - - -	736	10th March 1869	Improvements in machinery suitable for breaking stone to prepare it for the manufacture of concrete and for other purposes, also in machinery for mixing concrete.
DRAKE, WILLIAM - - -	736	10th March 1869	Improvements in machinery suitable for breaking stone to prepare it for the manufacture of concrete and for other purposes, also in machinery for mixing concrete.
DRAPER, HENRY - - -	3453	29th Nov. 1869	Apparatus to be used when tanning hides and skins.
DRASCH, ALOIS - - -	1249	23rd April 1869	An improved motive-power engine. (Patented by George White.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
DRECHSLER, FRANCIS JOSEPH	2542	27th Aug. 1869	Improvements in stoves and grates or apparatus for cooking, heating and other stove or grate uses, with rotary motion arrangements and with appliances for rendering the same useful for fumigating, refrigerating, sifting, winnowing, churning, cutting and other purposes where such rotary motion arrangements may be capable of being used.
DREDGE, WILLIAM - - -	2248	24th July 1869	Improvements in machinery for propelling carriages, part of which improvements are applicable to the transmission of power between shafts which are not parallel to one another.
DREYER, WILLIAM CHARLES -	912	25th March 1869	Machinery for tilling land. (Communicated by Reuben Walter Heywood.)
DREYFUS, CHARLES - - -	1657	29th May 1869	Preparation of cloth and yarn for printing and dyeing. (Patented by Edward Joseph Hughes.)
DRUMMOND, JOHN WALLACE -	1030	5th April 1869	Looms for weaving.
DU LIN, JEAN MARIE JOSEPH [CHARLES.]	753	11th March 1869	Improvements in the preparation of artificial fuel and in the manufacture of gas and coke therefrom. (Patented by John Henry Johnson.)
DU LIN, JEAN MARIE JOSEPH [CHARLES.]	3775	30th Dec. 1869	Production of cast-iron, iron and steel. (Patented by John Henry Johnson.)
DU MOTAY, CYPRIEN MARIE [TESSIÉ.]	1617	26th May 1869	Bleaching vegetable fibres, threads and fabrics. (Patented by Clinton Edgcumbe Brooman.)
DU MOTAY, CYPRIEN MARIE [TESSIÉ.]	2035	6th July 1869	Apparatus for heating and distilling water for boiler and other purposes. (Patented by Clinton Edgcumbe Brooman.)
DU RAFFRAICHESSEUR, COM- [PANY OR SOCIETY.]	601	26th Feb. 1869	Improved apparatus for distributing liquids in a state of spray. (Patented by Ernest Falck.)
DUBOIS, CHARLES LOUIS -	989	31st March 1869	Separating copper and bismuth from ores containing metals either separately or combined with other metals. (Patented by George Wells.)
DUBOIS, ERNEST - - -	1375	4th May 1869	Gas engines.
DUBOIS, HECTOR DENIS -	811	17th March 1869	Manufacture of pulp suitable for paper.
DUBOURG, JOSEPH EUGÈNE -	2722	18th Sept. 1869	New and improved means for utilizing the waste arising in spinning vegetable fibrous materials. (Patented by Henri Adrien Bonneville.)
DUBOURG, LOUIS ANTOINE [VICTOR.]	1493	15th May 1869	Improvements in the manufacture of gas for lighting and heating purposes, and in the apparatus employed therein.
DUBUS, JULES ANTOINE -	330	3rd Feb. 1869	The production of a new or improved hydraulic cement or artificial stone. (Patented by Charles Denton Abel.)
DUCHÊNE, FRANÇOIS ANDRÉ, [the elder.]	2377	9th Aug. 1869	Improvements in the manufacture of felted fabrics and in the application of such fabrics to the manufacture of hats and other useful purposes. (Patented by John Henry Johnson.)
DUCKHAM, FREDERIC ELIOT -	854	20th March 1869	Governors for marine engines.

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ALPHABETICAL INDEX OF PATENTEEES

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
DUCKHAM, FREDERIC ELIOT -	3644	16th Dec. 1869	Improvements in hydrostatic weighing machines, applicable also for testing chains and other similar purposes.
DUCKHAM, HENRY ALEXANDER [FREDERICK.	1922	23rd June 1869	Gas regulators.
DUCKWORTH, JOHN - -	1935	25th June 1869	Certain improvements applicable to carding-engines.
DUCKWORTH, JOSEPH - -	2921	8th Oct. 1869	Improvements in the construction of concrete and cement buildings, structures and articles, and in apparatus to be employed therein.
DUCKWORTH, ROBERT - -	1807	12th June 1869	Improved apparatus or appliances to be employed for sizing and warping yarns, and for weaving.
DUCKWORTH, WILLIAM, the [younger.	2021	5th July 1869	Taps for general purposes.
DUDGEON, ALEXANDER JOHN	1554	19th May 1869	Propelling vessels by means of water.
DUDGEON, WILLIAM - -	2688	11th Sept. 1869	Certain improvements in jacquard machines.
DUDIN, CELESTIN - - -	979	31st March 1869	A novel method of fastening belts or bands by means of buckles with shifting wedges. (Patented by William Edward Gedge.)
DUDIN, EDOUARD - - -	979	31st March 1869	A novel method of fastening belts or bands by means of buckles with shifting wedges. (Patented by William Edward Gedge.)
DUE, BLISH and Co., MESSRS. [LA.	3711	22nd Dec. 1869	Apparatus for sharpening the cutters of mowing-machines. (Patented by William McKenzie, Thomas McKenzie and James McKenzie.)
DUERRE, RUDOLPH - - -	2181	19th July 1869	An improved lever manumotive apparatus.
DUFF, CHARLES - - -	2552	28th Aug. 1869	Manufacture of paper-pulp and paper.
DUFFEY, JAMES - - -	771	12th March 1869	Railway brake and coupling apparatus.
DUFFIELD, GEORGE - -	220	23rd Jan. 1869	Improved appliances to be used in the manufacture of boots and shoes.
DUFRENÉ, HECTOR AUGUSTE -	368	6th Feb. 1869	Improvements in the manufacture of ice and of the agents employed therein, and in the apparatus connected therewith. (Communicated by Charles Tellier.)
DUFRENÉ, HECTOR AUGUSTE -	1419	10th May 1869	Desiccating and preserving meat and other organic substances. (Communicated by Charles Tellier.)
DUKE, JAMES - - -	2202	21st July 1869	Construction of ships.
DUKE, JOSEPH - - -	1781	4th June 1869	Manufacture of plaster and cement.
DULAKE, ALFRED JOHN -	2828	29th Sept. 1869	An improved pot or vessel for containing and conveying butter, lard, jellies or other similar substances, and for an improvement in the form of lid or covering for such pots or vessels.
DULLENS, HUGO - - -	3408	25th Nov. 1869	Machinery for propelling ships. (Patented by William Robert Lake.)
DUMONTIER, — - -	1785	9th June 1869	Improvements in the manufacture of artificial fuel and in apparatus for the purpose. (Patented by William Lloyd Wise.)
DUNDERDALE, CLEVELAND [FORBES.	2103	12th July 1869	An improved apparatus for generating hydrogen-gas and for carburetting hydrogen-gas or atmospheric air for illuminating and other purposes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
DUNHAM, JOHN LINGARD -	3334	19th Nov. 1869	New or improved means of communication between passengers in cabs, private carriages, omnibuses, tramroad cars and other such like vehicles, and the drivers or conductors thereof.
DUNKERLEY, BENJAMIN -	3394	24th Nov. 1869	Machinery or apparatus employed for felting or "planking" the bodies of hats, bonnets or other coverings for the head, which machinery is also applicable for felting woollen cloths.
DUNKERLEY, JOSEPH - -	3394	24th Nov. 1869	Machinery or apparatus employed for felting or "planking" the bodies of hats, bonnets or other coverings for the head, which machinery is also applicable for felting woollen cloths.
DUNLOP, QUINTIN - - -	93	12th Jan. 1869	Couplings and wheels for shafting and gearing.
DUNLOP, QUINTIN - - -	2091	12th July 1869	Couplings and wheels for shafting and gearing.
DUNN, ANDREW - - -	1505	17th May 1869	Construction of metal cans or tins.
DUNN, THOMAS - - -	1439	11th May 1869	Construction of velocipedes.
DUNN, THOMAS - - -	3108	27th Oct. 1869	Certain improvements in locomotive steam-engines and railway carriages.
DUPLAND, HENRY - - -	2442	16th Aug. 1869	Certain new and improved compositions for the prevention of dampness and saltpetre, together with the mode of applying the same.
DUPRÉ, WILLIAM HENRY -	1572	21st May 1869	Improved apparatus for giving light and ventilation to rooms, houses or other buildings.
DUPUY, — - - - -	1848	15th June 1869	Harmoniums. (Patented by Stefano Ventura Fontana.)
DURAND, FRANÇOIS - -	2573	31st Aug. 1869	An improved mode of and apparatus for applying the incompressibility of liquids for imparting the required stiffness to suitable supple bodies for allowing them to be made use of as armatures for building tunnels, submarine constructions, or for divers other useful purposes.
DURANT, ANGUISH HONOUR [AUGUSTUS.]	134	15th Jan. 1869	Manufacture of oil from castor and other oleaginous seeds or berries.
DURANT, ANGUISH HONOUR [AUGUSTUS.]	2012	3rd July 1869	Improvements in the mode or means of preparing or treating castor and other oleaginous seeds or berries for the manufacture of oil, and in the manufacture of oil from the seeds or berries so prepared or treated.
DURFEE, ZOHETH SHERMAN -	305	1st Feb. 1869	Improved modes of and apparatus for casting ingots. (Patented by Charles Denton Abel.)
DURVERGES, MESDAMES -	1047	7th April 1869	An improvement in ladies' bustles and crinolines. (Patented by Emile Collard.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
DUTHIE, DAVID - - -	2832	29th Sept. 1869	An improved machine for tenoning timber.
DYMOND, GEORGE - - -	924	27th March 1869	A new or improved baking powder.
DYSON GEORGE WALTER -	293	30th Jan. 1869	Manufacture of spade and shovel moulds.
E.			
EADS, JAMES BUCHANAN -	896	24th March 1869	Mechanism for working heavy guns or ordnance. (Patented by William Edward Newton.)
EARNSHAW, ALFRED - -	2647	8th Sept. 1869	A new or improved mode of and apparatus for comparing musical keys and for examining and explaining musical relations and harmonies, chords and consonances.
EARNSHAW, FREDERIC - -	2647	5th Sept. 1869	A new or improved mode of and apparatus for comparing musical keys and for examining and explaining musical relations and harmonies, chords and consonances.
EARNSHAW, GEORGE EDWARD	2647	8th Sept. 1869	A new or improved mode of and apparatus for comparing musical keys and for examining and explaining musical relations and harmonies, chords and consonances.
EAST, WILLIAM QUARTER- [MAINE.]	2038	6th July 1869	Means of and apparatus for indicating or registering the flow of liquids or fluids from vats, casks or other receptacles.
EASTERBROOK, JOHN - -	274	29th Jan. 1869	Apparatus for grinding and polishing engine slide bars, shear blades, marble slabs, saw blades and other flat surfaces where great accuracy is required.
EASTHAM, JAMES - - -	963	31st March 1869	Certain improvements in carding-engines.
EASTON, JOHN - - -	1119	12th April 1869	Construction of drop drills. (Communicated by John Dunnell Garrett.)
EASTWOOD, JAMES - - -	2453	17th Aug. 1869	Improvements in apparatus for churning milk and mixing liquid compounds, which improvements are also applicable to other purposes.
EASTWOOD, THOMAS - -	3497	3rd Dec. 1869	Working and reversing the valves of steam and other engines.
EBERHARD, JEAN - - -	529	20th Feb. 1869	Apparatus for propelling ships and other vessels.
EBNER, EMILE - - -	2890	5th Oct. 1869	An improved black printing ink capable of being removed from paper.
EBNER, EMILE - - -	2891	5th Oct. 1869	An improved mode of removing print from paper.
ECCLES, JAMES - - -	1237	22nd April 1869	Apparatus for "lessing" warps in machines called "slashers."

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
ECCLES, JAMES - - -	2280	26th July 1869	Looms for weaving.
ECCLES, JAMES - - -	2889	15th Sept. 1869	Looms for weaving.
ECCLES, JAMES - - -	3112	27th Oct. 1869	Looms for weaving.
ECKERSLEY, JAMES - -	496	18th Feb. 1869	Apparatus for drying and pressing printed paper.
EDEN, CHARLES HENRY -	86	12th Jan. 1869	A ladies' umbrella and dress suspender.
EDGE, JAMES - - -	1724	4th June 1869	Improvements in steam-engines and in apparatus employed in connection therewith.
EDGE, JAMES - - -	3097	25th Oct. 1869	Flat wire rope.
EDGVISH, ELOF ESAIAS -	1893	21st June 1869	Preserving animal and vegetable substances. <i>(Patented by Martin Olson.)</i>
EDLMANN, ALFRED - -	1630	27th May 1869	Machinery and apparatus for the manufacture of peat for charcoal, peat fuel and fire lights, and for other purposes.
EDMESTON, GRAY DENISON -	3286	12th Nov. 1869	Hammers to be worked by steam or other elastic fluid.
EDMONDS, EDWARD - -	3203	4th Nov. 1869	An improved coffee pot and filler for the same.
EDMONDS, JOHN THOMAS -	373	6th Feb. 1869	Instruments or apparatus for giving medicines and drinks to horses and other cattle.
EDMONDSON, FREDERICK [WILLIAM.	3343	20th Nov. 1869	Certain improvements in machinery for engraving cylinders used in printing.
EDMONDSON, JAMES - -	3343	20th Nov. 1869	Certain improvements in machinery for engraving cylinders used in printing.
EDMONDSON, WILLIAM - -	2860	2nd Oct. 1869	Machinery for etching or engraving cylinders used for printing and embossing.
EDMONDSON, WILLIAM - -	3343	20th Nov. 1869	Certain improvements in machinery for engraving cylinders used in printing.
EDWARDS, DAVID - - -	2956	11th Oct. 1869	Construction of land cultivators. <i>(Patented by William Robert Lake.)</i>
EDWARDS, ERNEST - -	3543	8th Dec. 1869	Photo-mechanical printing and the reproduction of designs.
EDWARDS, GEORGE HENRY -	984	1st April 1869	Breech-loading fire-arms known as "Chassepot" rifles.
EDWARDS, GEORGE HENRY -	1767	8th June 1869	Breech-loading fire-arms known as Chassepot rifles.
EDWARDS, HARRY SMITH -	2308	31st July 1869	Gearing for auxiliary screw engines.
EDWARDS, HENRY - - -	434	12th Feb. 1869	An improved preserved food.
EDWARDS, HENRY DALE -	1251	23rd April 1869	Sheep-washing apparatus. <i>(Patented by George Tomlinson Bousfield.)</i>
EDWARDS, JOHN - - -	181	20th Jan. 1869	Means of and apparatus for effecting communication between passengers and guards of railway trains, and signalling on railways.
EDWARDS, JOHN - - -	725	9th March 1869	Signaling on railway trains.
EDWARDS, JOHN - - -	2618	6th Sept. 1869	Improvements in railway carriages and in means for communicating from one to another of the same.
EDWARDS, JOHN - - -	3273	13th Nov. 1869	Improvements in permanent way of railways and for giving signals on the same.
EDWARDS, JOHN CHARLES -	2995	14th Oct. 1869	Machinery for opening, cleaning and preparing cotton and other fibrous materials.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
EDWARDS, JOSEPH - -	3455	29th Nov. 1869	Improved means for preventing roller laps on roller ends of machines for carding cotton, woollen, flax or any other fibrous material.
EDWARDS, KINARD BAGHOTT	406	10th Feb. 1869	Apparatus for communicating between the guard, engine driver and passengers in railway trains.
EDWARDS, THOMAS - -	3760	29th Dec. 1869	Condensing steam-engines.
EGGERT, LUDWIG - -	1173	16th April 1869	A new mode of constructing vessels of war with due regard to their protection from shot and shell.
EICHMAN, WILHELM - -	381	8th Feb. 1869	Method of and apparatus for preserving, improving and discharging beer and other beverages. (Patented by Lionel Strauss and Anton Seckbach.)
EKMAN, CARL DANIEL -	3149	30th Oct. 1869	Cooking apparatus. (Patented by Otto Fahnehjelm.)
ELCE, JOHN - - - -	2341	5th Aug. 1869	Certain improvements in self-acting temples for looms.
ELCE, JOHN - - - -	2740	21st Sept. 1869	Improvements in the shape and manufacture of bobbins or spools, and in the machinery for winding rovings thereon.
ELCE, JOHN - - - -	3148	30th Oct. 1869	Certain improvements in machinery for spinning and doubling.
ELEY, WILLIAM THOMAS -	166	18th Jan. 1869	Construction of cartridge cases.
ELEY, WILLIAM THOMAS -	591	26th Feb. 1869	Construction of cartridge cases for breech-loading fire-arms.
ELEY, WILLIAM THOMAS -	1062	7th April 1869	Construction of cartridge cases for breech-loading fire-arms.
ELI, ALEXANDER JAMES -	2856	1st Oct. 1869	Apparatus for indicating and registering the distances travelled by vehicles.
ELKINGTON, JAMES BALLENY	3120	27th Oct. 1869	Improvements in the manufacture of copper and in separating other metals therefrom.
ELLERSHAUSEN, FRANCIS -	2553	28th Aug. 1869	Treating conglomerates of cast iron and other substances.
ELLERSHAUSEN, FRANCIS -	2632	7th Sept. 1869	Means and apparatus for utilising the force of the waves.
ELLERSHAUSEN, FRANCIS -	3680	20th Dec. 1869	Means and apparatus for utilising the force of the waves.
ELLINGTON, EDWARD BAYZAND	3409	25th Nov. 1869	Hydraulic cranes or apparatus for moving weights.
ELLIS, GEORGE HENRY - -	1005	3rd April 1869	Apparatus for cleaning boots, shoes and knives, applicable also to hair-brushing purposes.
ELLIS, GEORGE HENRY - -	1624	26th May 1869	An improved apparatus for cleaning boots and shoes.
ELLIS, GEORGE HENRY - -	2207	21st July 1869	Rotary engines.
ELLIS, HUGH - - - -	682	6th March 1869	Cranes for raising merchandise and weights of all descriptions.
ELLIS, JOHN - - - -	682	6th March 1869	Cranes for raising merchandise and weights of all descriptions.
ELLIS, JOHN DEVONSHIRE -	238	26th Jan. 1869	An improved method of rolling armour plates.
ELLIS, ROBERT JOSEPH - -	1207	20th April 1869	Mode or method of drying animal and vegetable matters.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
ELLIS, ROBERT JOSEPH - -	2981	13th Oct. 1869	Apparatus for desiccating animal and vegetable matters.
ELLISON, JOHN - - -	2199	20th July 1869	Improvements in the manufacture of rope, cord and twine, and in the machinery therefor.
ELROY, JAMES ANGELO MC -	687	8th March 1869	Rotatory motive-power, pumping and measuring apparatus.
ELSDON, ROBERT - - -	1327	30th April 1869	Construction of kilns for the manufacture of lime and cement, or for the calcining of ores or other material of a like nature requiring to be calcined.
EMERSON, JAMES EZEKIEL -	873	22nd March 1869	Rocking and reclining chairs.
EMERY, JOHN JOHN - - -	3006	15th Oct. 1869	Chain cable stoppers. (Patented by William Robert Lake.)
EMSLEY, SIDNEY - - -	3368	22nd Nov. 1869	Spinning fibrous substances.
ENGEL, FREDERIC - - -	2820	28th Sept. 1869	Looms for weaving. (Patented by John Bullough.)
ENGEL, LAWRENCE - - -	588	25th Feb. 1869	Parasols and umbrellas or sunshades.
ENGEL, LAWRENCE - - -	803	16th March 1869	Umbrellas, sunshades and parasols.
ENGELHORN, FREDERIC - -	488	17th Feb. 1869	An improved method of obtaining benzole and its homologous substances from coal gas. (Patented by William Robert Lake.)
ENGERT, ADAM CYRUS - -	433	11th Feb. 1869	Improvements in the manufacture of plain and ornamental mouldings for picture frames and other uses, and in apparatus therefor.
ENGERT, ADAM CYRUS - -	1746	5th June 1869	Improvements in the manufacture of plain and ornamental mouldings for picture frames and other uses, and in apparatus therefor.
ENGERT, ADAM CYRUS - -	3426	26th Nov. 1869	Manufacture of ornamental placards, show-cards, labels, maps and such like articles.
ENGHOLM, OTTO - - -	1275	24th April 1869	Improvements in the preserving of articles of food and in the mechanism or apparatus employed therefor or connected therewith.
ENGHOLM, OTTO - - -	1276	24th April 1869	Improved means, apparatus and mechanism for retaining caught fish in life for market, applicable also for other purposes.
ENGLISH, THOMAS - - -	1247	23rd April 1869	Screw bolts, bolt-holes, nuts and washers for armour-plated structures.
ENSOR, EDWARD, the younger -	3467	30th Nov. 1869	Improvements in kilns for burning pottery and salt glaze ware, applicable also to the burning of bricks and to the annealing of iron.
ENSOR, FREDERIC RAINFORD -	207	22nd Jan. 1869	Manufacture of the fabric known as Ensor net or lace.
ERMEN, GODFREY - - -	3678	20th Dec. 1869	Construction of brushes for polishing yarns or threads and for other purposes.
ERMEN, GODFREY ANTHONY -	1020	5th April 1869	Breech-loading fire-arms and cartridges relating thereto.
ERMEN, GODFREY ANTHONY -	3678	20th Dec. 1869	Construction of brushes for polishing yarns or threads and for other purposes.
ERNI, LEONARD - - -	2170	19th July 1869	Sewing-machines. (Patented by John Henry Johnson.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
ERRANI, MADAM CHARLES -	3178	2nd Nov. 1869	Improvements in motive-power engines and in the means and mechanism for generating such power. (Patented by Alexander Horace Brandon.)
ERSKINE, FRANCIS - . -	1187	13th April 1869	Fire-bars and arrangements for economizing fuel and consuming smoke, applicable to steam-boiler and other furnaces.
ERSKINE, FREEMAN PARKER -	228	25th Jan. 1869	Machinery for stamping and forming articles of sheet metal. (Patented by William Edward Newton.)
ESCOFFIER, CASIMIR DUROZET	2619	6th Sept. 1869	Construction of casters or rollers for furniture and applicable where casters or rollers are or may be employed. (Communicated by Louis Henry Pinel.)
ESKRETT, CYRUS - . -	1189	13th April 1869	An improved combined metallic envelope and filling plate to be used in expressing oil or fatty matters from seeds or other oil or fat yielding substances, and especially in the manufacture of oil cake.
ESKRETT, CYRUS - . -	2706	16th Sept. 1869	Improvements in "envelopes" or "hairs" used in extracting oil from oleaginous seeds and in oil cake making.
ESPEUT, WILLIAM BANCROFT	3158	30th Oct. 1869	Centrifugal drying machines.
ESTAINS, CLÉMENTE D' - -	1310	28th April 1869	A new and improved means of concentrating the caloric of heated water used for bathing purposes. (Patented by Henri Adrien Bonneville.)
ETÉY, CHARLES STANISLAS [NESTOR.]	3715	23rd Dec. 1869	Railway sleepers or supports. (Patented by Bristow Hunt.)
ETIENNE, ANDRÉ - . -	2925	8th Oct. 1869	Construction of carriages, vehicles and velocipedes.
EVANS, ALBERT - . -	3045	19th Oct. 1869	An improved method of joining or connecting pipes and tubes.
EVANS, DANIEL - . -	1679	31st May 1869	Construction of ships' boilers, buoys, casks and other articles, by welding together the plates or parts of which they are formed.
EVANS, JOHN ISAAC - . -	1909	22nd June 1869	Construction of apparatus for cold rolling iron for tin plates.
EVANS, ORMEROD COFFEEN -	2926	8th Oct. 1869	Wheels for vehicles and other purposes.
EVANS, PHILIP CHARLES -	184	20th Jan. 1869	Apparatus for feeding wool or other fibrous materials to carding or other machines.
EVANS, PHILIP CHARLES -	3402	25th Nov. 1869	Apparatus for feeding wool, cotton or other fibrous materials to carding or other machines.
EVANS, PHILIP CHARLES -	3600	13th Dec. 1869	Apparatus for feeding wool, cotton or other fibrous materials to carding or other machines.
EVELEIGH, GEORGE - . -	45	7th Jan. 1869	Improvements in the manufacture and purification of gas for lighting, and in the means of applying the same to heating purposes, parts of which improvements are also applicable to the purification of mineral oil.
EVELYN, GEORGE PALMER -	792	15th March 1869	Construction of the sails, yards and rigging of ships or vessels.
EVEN, JULIEN PIERRE - . -	2325	3rd Aug. 1869	An improved curry-comb. (Patented by William Edward Gedge.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
EVERED, RICHARD BROWN -	2152	16th July 1869	Apparatus for raising, forcing and regulating the flow of water.
EVERETT, CHARLES JAMES -	1957	28th June 1869	An improved method of and apparatus for rendering and refining lard, tallow and other fatty and oleaginous matter. (Patented by William Robert Lake.)
EVERETT, CHARLES JAMES -	2547	27th Aug. 1869	An improved method of and apparatus for rendering and refining lard, tallow and other fatty and oleaginous matter. (Communicated by William Robert Lake.)
EVERETT, ROBERT JOHN -	3146	30th Oct. 1869	An improved process for the manufacture of salts of ammonia from ammoniacal gas liquor.
EVVOY, BERNARD M ^c . - -	1053	7th April 1869	An improved game suitable for outdoor or indoor exercise, and instruments and appliances connected therewith.
EWING, ARCHIBALD - -	2019	5th July 1869	Improvements in feeding steam-boilers or generators and in the apparatus or mechanism employed therefor.
EYLAND, CHARLES NEWBOLD	2305	31st July 1869	Buckles for articles of dress.
EYTH, MAX - - - -	2064	9th July 1869	Means or apparatus for propelling canal-boats and other vessels. (Patented by Hunter Henry Murdock.)
EYTH, MAX - - - -	2162	17th July 1869	Carrying the steering or other road wheels of implements, traction engines or other machines adapted for moving over common roads or fields.

F.

FAGAN, EDWARD - - -	3254	11th Nov. 1869	Treatment of caoutchouc, gutta-percha and analogous gums for the production therefrom of articles of utility and ornament. (Patented by John Henry Johnson.)
FAGG, JESSE - - - -	1515	18th May 1869	Manufacture of waterproof garments or overalls.
FAGG, THOMAS - - - -	1515	18th May 1869	Manufacture of waterproof garments or overalls.
FAHNEHJELM, OTTO - -	3149	30th Oct. 1869	Cooking apparatus. (Communicated by Carl Daniel Ekman.)
FAIRBAIRN, CHARLES - -	693	8th March 1869	Improvements in the construction of furnaces by apparatus for the more perfect combustion and economy of fuel and prevention of smoke.
FAIRBAIRN, JOHN URRY -	2344	5th Aug. 1869	Construction of velocipedes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
FAIRBURN, HENRY GEORGE -	54	7th Jan. 1869	Improvements in machinery for compressing and solidifying coal, clay, lignite, peat and other analagous substances, applicable also to machinery employed for other purposes.
FAIRGRIEVE, ARTHUR TRE- [VELYAN.	1652	28th May 1869	An improved paste or composition adapted for coating the bottoms of wood and iron ships.
FAIRLIE, ROBERT FRANCIS -	2457	17th Aug. 1869	Improvements in locomotive engines and carriages, and in the mode of coupling the same together.
FAIRLIE, ROBERT FRANCIS -	2469	18th Aug. 1869	Injectors for feeding steam-boilers with water.
FALARDO, PETER - - -	841	19th March 1869	Weighing scales. (Patented by Edward Thomas Hughes.)
FALARDO, PETER - - -	2723	18th Sept. 1869	Weighing scales. (Patented by Henry John Rogers.)
FALCK, ERNEST - - -	601	26th Feb. 1869	Improved apparatus for distributing liquids in a state of spray. (Communicated by the Company or Society Du Rafrichisseur.)
FALISSE, LEWIS - - -	2025	5th July 1869	An improved breech-loading fire-arm.
FALL, GEORGE ALEXANDER -	545	22nd Feb. 1869	Propelling vessels.
FANSHAWE, JOHN AMERICUS -	101	13th Jan. 1869	Manufacture of elastic rubbers.
FANSHAWE, JOHN AMERICUS -	697	8th March 1869	Machines for grinding and surfacing rings, plates, discs and other analogous articles made of iron or steel.
FANSHAWE, JOHN AMERICUS -	2657	9th Sept. 1869	Machinery for grinding and surfacing rings, plates, discs and other analogous articles.
FARCOT, EMMANUEL DENIS -	2865	2nd Oct. 1869	An improved mode of propelling and constructing ships and boats and their accessories.
FARCY, JÉROME EUGÈNE -	2631	7th Sept. 1869	Construction of ships and other vessels. (Patented by Alexander Melville Clark.)
FAREY, BARNARD WILLIAM -	561	23rd Feb. 1869	Seatings or facings of gas valves.
FAREY, BARNARD WILLIAM -	1150	14th April 1869	Steam-engines.
FARJON, LOUIS ALEXANDRE -	3524	6th Dec. 1869	Improvements in and apparatus for forming and joining the ends of iron and other tubes or pipes. (Patented by Hunter Henry Murdoch.)
FARLAND, GEORGE BRADFORD [Mc.	3446	29th Nov. 1869	A new and improved convertible double centre rotary engine.
FARLAND, WILLIAM Mc. -	1804	11th June 1869	Submarine drilling apparatus. (Patented by William Edward Newton.)
FARMER, JOHN - - -	1727	4th June 1869	Reaping and mowing machines.
FARMER, MOSES GERRISH -	1136	13th April 1869	Machinery or apparatus for making compound telegraph wire or conductors. (Patented by John Henry Johnson.)
FARRELL, ISAAC - - -	1261	26th April 1869	Velocipedes.
FARRELL, ISAAC - - -	2786	25th Sept. 1869	Bearings for axles, shafting and such like.
FARRINGTON, ERNEST - -	2965	12th Oct. 1869	Breech-loading fire-arms.
FARRINGTON, JOSEPH - -	634	2nd March 1869	Improved apparatus for travelling with ease, speed and safety.
FARRON, SQUIRE - - -	2897	6th Oct. 1869	Construction of cocks or taps.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
FARWELL, OLIVER ATKINS -	2276	27th July 1869	A new and useful mechanism, apparatus or engine to be used either in measuring water discharged from a conduit or for various other useful purposes. (Patented by Thomas Parsons.)
FATTORINI, SANTONI - -	2073	10th July 1869	An improved mode of measuring or dividing time, applicable to chronometers, sextants and other such like instruments. (Patented by Alexander Melville Clark.)
FAU, AUGUSTE - - -	1371	4th May 1869	An improved process for washing, freeing from burs and unhairing skins.
FAU, EUGÈNE - - -	1371	4th May 1869	An improved process for washing, freeing from burs and unhairing skins.
FAUCHEUX, RAOUL PAUL -	2055	7th July 1869	Boxes or holders for matches and other articles.
FAULKNER, JOHN - - -	2775	24th Sept. 1869	Exhausting, drawing or draining the gas from coal and coal mines.
FAURE, CAMILLE - - -	189	20th Jan. 1869	Locomotives and other railway carriages.
FAURE, CAMILLE - - -	2135	15th July 1869	Locomotives and other railway carriages. (Patented by Charles de Bergue.)
FAURE, CAMILLE - - -	3324	18th Nov. 1869	Galvanic batteries.
FAURE, PIERRE PAULIN -	2670	11th Sept. 1869	Machinery or apparatus for moulding articles in ceramic or plastic materials. (Patented by John Garrett Tongue.)
FAWCETT, JOHN - - -	1471	13th May 1869	Improved means or apparatus for measuring oil or other liquids.
FAWCETT, THOMAS - - -	2826	28th Sept. 1869	Harvesting machines. (Patented by William Robert Lake.)
FAWCETT, THOMAS CONSTAN- [TINE.	2219	22nd July 1869	Raising gigs used in the process of raising the nap of woollen cloth or other fabrics.
FELL, JOHN BARRACLOUGH -	889	24th March 1869	Improvements in or applicable to locomotive engines, carriages and permanent way, adapted more particularly for railways having steep inclines, but which may be used upon railways of ordinary gradients.
FELLONI, JEAN BERNARD, [AINÉ.	953	30th March 1869	Improved means of balling or winding threads and apparatus employed therein, the apparatus being applicable to other purposes. (Patented by Clinton Edgcumbe Brooman.)
FELTON, GEORGE MATTHEW -	3414	25th Nov. 1869	Collars, cuffs and other similar articles.
FENNELLY, RICHARD - -	1368	4th May 1869	Cases for the conveyance of fresh meat.
FENNELLY, RICHARD - -	1402	7th May 1869	Apparatus for washing out casks. (Communicated by Imanuel Pfeiffer.)
FENNER, GEORGE - - -	1760	7th June 1869	Bits for horses.
FENTON, ALBERT - - -	2998	14th Oct. 1869	Cases or receptacles for needles, pins, matches, pens, cards, stamps, photographs, cotton and other similar articles.
FERGUSON, CHARLES - -	1472	13th May 1869	Improvements in the washing, brushing, filling and corking of bottles, and in the means, apparatus or mechanism employed therefor, part of which mechanism is also applicable for other purposes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
FERRABEE, JAMES - - -	2492	20th Aug. 1869	Machinery for the manufacture of hats for felting and other purposes.
FERRIE, WILLIAM - - -	3699	21st Dec. 1869	Blas furnaces.
FERRIER, GEORGE DAVIS -	1985	1st July 1869	Breech-loading fire-arms. (Patented by John Henry Johnson.)
FERRIER, JAMES, the younger -	1985	1st July 1869	Breech-loading fire-arms. (Patented by John Henry Johnson.)
FIELD, ARTHUR WILLIAM -	986	1st April 1869	An improved self-acting break for railway carriages.
FIELD, DANIEL JAMES - -	1776	9th June 1869	Machines for compressing wool or other substances.
FIELD, EDWARD - - -	1420	10th May 1869	Steam fire-engines and other pumping apparatus.
FIELD, EDWARD - - -	3495	2nd Dec. 1869	Valves for steam fire-engine and other pumps.
FIELD, JAMES JOHN - - -	1620	26th May 1869	Improvements in applying polarized light in connection with the microscope, and in apparatus therefor.
FIELD, WALTER - - -	2986	14th Oct. 1869	Apparatus for facilitating the copying of drawings and other representations, forms or designs.
FIELDING, GEORGE - - -	1949	26th June 1869	An improved smoke burner to be adapted to the flues of steam-boilers.
FIEVET, EDWARD - - -	1084	6th April 1869	Construction of shafts and other parts of carriages. (Patented by George Tomlinson Bosfield.)
FIGUIER, JEAN PIERRE ALBIN	1483	14th May 1869	An improvement in liquids for the lubrication of sheep's or other wool, or other animal textile fibrous materials.
FINCH, EDWARD - - -	3194	3rd Nov. 1869	Dock-gates and caissons for closing the entrances to docks and basins.
FINLAYSON, COLIN TAYLOR -	2916	7th Oct. 1869	An improved form of wheel for propelling ships, and applicable also to pumps for raising or forcing water. (Patented by William Edward Newton.)
FINLEY, WILLIAM - - -	1481	14th May 1869	Improvements in working and applying the breaks of railway carriages and in apparatus connected therewith.
FINLEY, WILLIAM - - -	2306	31st July 1869	Machinery or apparatus for mixing substances for pills, ointment and other purposes, and for making pills and globular articles of plastic substances.
FINLEY, WILLIAM - - -	3406	25th Nov. 1869	Improved machinery for pill mass-mixing and pill making, mixing plastic substances, making plaster rolls and for other similar or analogous purposes.
FINNEGAN, GEORGE - - -	2198	20th July 1869	Machinery for sawing wood and stone, part of which is applicable also to other machines in which cranks are used.
FINZEL, GEORGE HENRY [TAYLER.	722	9th March 1869	Improvements in cooling and sifting ground animal charcoal after it has been reburned, and in apparatus employed for this purpose, and for raising ground animal charcoal to any desired height.
FION, JULIUS - - -	2548	27th Aug. 1869	A new system of sash or frame work for landau and landulet carriage doors.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
FIRTH, SAMUEL - - -	943	29th March 1869	Picks and railways for cutting coal and other minerals, part of which can be applied to railways used for other purposes.
FIRTH, WILLIAM - - -	3059	20th Oct. 1869	Wheels of traction carriages for use on common roads and tramways.
FISCHER, WILLIAM - - -	3744	24th Dec. 1869	Apparatus for measuring the weight or volume of water or other fluid supplied to steam-boilers or other vessels, and the quantity of caloric transmitted to the same. (Patented by Nathaniel Grew.)
FISCHER, WILLIAM HENRY -	417	10th Feb. 1869	An improved photographic printing process.
FISH, GEORGE - - -	638	2nd March 1869	Construction and working of temples and rollers for winding the cloth and other rollers to be used in power looms for weaving.
FISH, GEORGE - - -	1022	5th April 1869	Looms for weaving.
FISH, LEVI - - -	638	2nd March 1869	Construction and working of temples and rollers for winding the cloth and other rollers to be used in power looms for weaving.
FISH, LEVI - - -	1022	5th April 1869	Looms for weaving.
FISHER, ROWLAND GEORGE -	2185	20th July 1869	Rafters or bearers for roofs and floors.
FISK, WILLIAM - - -	1737	4th June 1869	Machinery or apparatus for slicing cucumbers and other vegetables for culinary purposes.
FITTON, EDWARD GERRARD -	2449	16th Aug. 1869	Improvements in spinning flax, hemp, jute and tow, and in machinery employed for these purposes.
FITZ GERALD, CHARLES [LIONEL WINGFIELD.	1207	20th April 1869	Mode or method of drying animal and vegetable matters.
FITZ GERALD, DESMOND [GERALD.	501	18th Feb. 1869	A new or improved mode of constructing electric telegraphs and voltaic batteries.
FITZ GERALD, DESMOND [GERALD.	3696	21st Dec. 1869	A new or improved mode of constructing electric telegraphs.
FITZGERALD, DANIEL - -	1824	14th June 1869	Ordnance and vessels for carrying the same.
FLAGG, THOMAS JEFFERSON -	1400	6th May 1869	Suspenders or braces. (Patented by George Tomlinson Bousfield.)
FLANDERS, LUCIEN BONAPARTE	550	22nd Feb. 1869	Velocipedes. (Patented by John Henry Johnson.)
FLAUD, HENRI PIERRE - -	2669	11th Sept. 1869	Apparatus for producing sonorous signals and musical sounds. (Patented by John Henry Johnson.)
FLEMING, FRANCIS - - -	2188	20th July 1869	Driving straps or belts.
FLETCHER, ADDISON CALVIN -	485	17th Feb. 1869	Improvements in adhesive stamps applicable for postal, internal, revenue and other purposes or uses, a portion of which improvements is also applicable to railway passenger tickets. (Patented by William Edward Newton.)
FLETCHER, HENRY ALLASON -	998	2nd April 1869	Steam generators.
FLETCHER, JOHN - - -	476	16th Feb. 1869	Improvements in feeding begass furnaces, and in begass furnaces and in apparatus applied thereto. (Communicated by Donald Skel and Alexander Skel.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
FLETCHER, JOHN - - -	1024	5th April 1869	Construction of fire-bars to be employed in furnaces.
FLETCHER, JOHN - - -	1697	2nd June 1869	An improvement in steam and other cocks applicable to union joints.
FLETCHER, JOHN, senior - -	1218	21st April 1869	An improved mode of and apparatus for lubricating the wheels of velocipedes and other wheels and pulleys.
FLETCHER, JOHN, senior - -	3419	26th Nov. 1869	Improvements in and applicable to mortar mills and other machines of the like nature, for grinding or pulverizing.
FLETCHER, JOHN, junior - -	1218	21st April 1869	An improved mode of and apparatus for lubricating the wheels of velocipedes and other wheels and pulleys.
FLETCHER, JOHN, junior - -	3419	26th Nov. 1869	Improvements in and applicable to mortar mills and other machines of the like nature, for grinding or pulverizing.
FLETCHER, WILLIAM - - -	1218	21st April 1869	An improved mode of and apparatus for lubricating the wheels of velocipedes and other wheels and pulleys.
FLETCHER, WILLIAM - - -	3419	26th Nov. 1869	Improvements in and applicable to mortar mills and other machines of the like nature, for grinding or pulverizing.
FLEURY, CHARLES MICHEL - -	2732	20th Sept. 1869	An improved press bed. (Patented by William Edward Gedge.)
FLEURY, FRANCIS GEORGE - -	535	20th Feb. 1869	Meters or apparatus for measuring water and other liquids.
FLEURY, FRANCIS GEORGE - -	2151	16th July 1869	Apparatus for drawing or raising and forcing liquids.
FLINN, WILLIAM C. - - -	372	6th Feb. 1869	Machinery or apparatus for cutting wire and rods of metal and other materials. (Patented by John Charles Shaw.)
FLOWER, PHILIP WILLIAM - -	1452	12th May 1869	Improvements in the method and process of producing impressions upon tin andterne plates and sheets of metal, and in furnaces or ovens for heating and drying plates or sheets which have received the required impressions. (Communicated by Emile René Peltier, Albert Adolphe Paillard and Laurent Delangre.)
FLOWER, PHILIP WILLIAM - -	1458	12th May 1869	Coating sheets of metal with other metal.
FLOWER, THE HONBLE. ROBERT. -	1296	27th April 1869	Organs.
FLOWER, WICKHAM - - -	1452	12th May 1869	Improvements in the method and process of producing impressions upon tin andterne plates and sheets of metal, and in furnaces or ovens for heating and drying plates or sheets which have received the required impressions. (Communicated by Emile René Peltier, Albert Adolphe Paillard and Laurent Delangre.)
FOGG, JAMES - - -	3391	24th Nov. 1869	Machinery for dressing flags and stone and other hard materials.
FOLLETT, GEORGE - - -	2206	21st July 1869	An improved waterproof facing for brick buildings.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
FOLLIET, CLAUDE PAUL - -	3415	25th Nov. 1869	The composition and application of a novel powder for destroying the oidium in vines and other plants, and the application of a mixture of some of its ingredients in a liquid state to destroy parasites between the bark and wood of trees. (Patented by William Edward Gedge.)
FOLLIET, LOUIS - - -	3348	20th Nov. 1869	A new or improved apparatus for lubricating purposes.
FOLLOWS, FREDERICK WILLIAM	964	31st March 1869	Certain improvements in lawn mowing machines.
FOLLOWS, FREDERICK WILLIAM	1204	20th April 1869	An improved apparatus for sweeping carpets, floors, lawns and other surfaces.
FONDU, JEAN BAPTISTE - -	2182	19th July 1869	A new and improved process and compound for blowing glass and for the apparatus connected therewith.
FONTAINE, JOSEPH AUGUSTE [ANDRÉ.]	309	1st Feb. 1869	An improved hydrostatic hoist.
FONTAINE, LOUIS - - -	2232	22nd July 1869	Boilers and furnaces for producing super-heated steam. - (Patented by Robert Boyd.)
FONTAINE, LOUIS HENRI -	1912	22nd June 1869	Mode of and apparatus for typographical composing and printing. (Patented by Michael Henry.)
FONTAINE, LOUIS HENRI -	3679	20th Dec. 1869	Mode of and apparatus for typographical composing and printing. (Patented by Michael Henry.)
FONTANA, STEFANO VENTURA	1848	15th June 1869	Harmoniums. (Communicated by Messrs. Lefevre and Dupuy.)
FOOS, WILLIAM - - -	718	9th March 1869	Improvements in turbine wheels and in apparatus connected with the same. (Patented by William Robert Lake.)
FOOTE, ELISHA - - -	481	11th Feb. 1869	Improvements applicable to harvesters or reaping machines. (Patented by Charles Thomas.)
FORBES, JOHN - - -	3474	1st Dec. 1869	Improvements in desiccating malt, grain and other similar substances, and in means employed therefor.
FORBES, PETER - - -	687	2nd March 1869	Refining or purifying oils and fats.
FORBES, PETER - - -	1469	13th May 1869	Improvements in refining or treating oils and fats and in apparatus therefor.
FORBES, ROBERT BENNET -	1315	28th April 1869	Rigging square-rigged vessels.
FORD, EDWARD - - -	3165	1st Nov. 1869	Improvements in chromatic slides for cornets, trumpets, trombones and other similar musical instruments, and in devices for operating the same.
FORD, ROBERT GRAY - -	2387	10th Aug. 1869	Improvements in the construction of rock boring machinery and in air compressors for working the same, part of which improvements are applicable to other purposes. (Patented by Edward Thomas Hughes.)
FORDER, ALFRED - - -	3044	19th Oct. 1869	Seats or saddles of velocipedes and manumotive carriages used either on land or water.
FORDER, FREDERICK - -	1889	19th June 1869	Velocipedes.

For]

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
FORDER, FREDERICK - -	2652	9th Sept. 1869	Bearings of loose axles for velocipedes and other carriages.
FORREST, HENRY - - -	70	9th Jan. 1869	Refrigerators.
FORSAITH, SAMUEL COLWELL -	904	25th March 1869	Machinery for folding paper. (Patented by William Robert Lake.)
FORSTER, CARL, junior - -	2701	16th Sept. 1869	Apparatus for preventing the incrustation and the accumulation of sediment in steam-boilers. (Patented by Henry Bernoulli Barlow, junior.)
FORSTER, THOMAS - - -	507	18th Feb. 1869	Manufacture of india-rubber suction and other pipes, and of hose, buckets, bags and such like vessels for conveying or holding water or other liquids.
FORSTER, THOMAS - - -	662	4th March 1869	Manufacture of printing rollers.
FORSTER, THOMAS - - -	1278	24th April 1869	Improvements in compounds containing india-rubber, gutta-percha or balata, and in the manufacture of such compounds.
FORTIN, LOUIS BRUNO - -	1328	30th April 1869	Improvements in the manufacture of felt and in machines for the purpose. (Patented by William Spence.)
FORTIN, LOUIS BRUNOT - -	2492	20th Aug. 1869	Machinery for the manufacture of bats for felting and other purposes.
FOSBERY, GEORGE VINCENT, [V. C.]	1547	19th May 1869	Breech-loading fire-arms and cartridges for the same.
FOSKETT, WILLIAM ALEX- [ANDER.]	3077	22nd Oct. 1869	Machines for manufacturing brushes. (Patented by Charles Edward Fuller.)
FOSSARD, ETIENNE JOACHIN [DANIEL.]	382	8th Feb. 1869	An improved clyster-pump.
FOSTER, CHARLES JOSEPH -	1578	21st May 1869	Improvements in obtaining the transverse reciprocating motions of the cutter bar in reaping, mowing and other similar agricultural machines, and improvements in wheels for agricultural machines, which last-named improvements are also applicable to traction-engine wheels.
FOSTER, DAVID - - -	1633	27th May 1869	Manufacture of hollow shot or shell.
FOSTER, FREDERICK - - -	3385	23rd Nov. 1869	Pressure gauges.
FOSTER, JAMES - - -	1795	10th June 1869	Apparatus for the prevention of smoke in furnaces.
FOSTER, JAMES, junior - -	1567	20th May 1869	Boat-detaching apparatus. (Patented by William Robert Lake.)
FOSTER, ROBERT - - -	537	20th Feb. 1869	Construction of boilers.
FOSTER, ROBERT - - -	1265	24th April 1869	Machinery for crushing and pulverizing.
FOSTER, WILLIAM - - -	3678	20th Dec. 1869	Construction of brushes for polishing yarns or threads and for other purposes.
FOUCAUT, ALFRED - - -	2008	2nd July 1869	Telegraphic cables.
FOULDS, WILLIAM - - -	3651	17th Dec. 1869	Apparatus for heating feed-water. (Communicated by William B. Mack.)
FOULDS, WILLIAM - - -	3664	18th Dec. 1869	Apparatus to promote circulation in steam-boilers. (Communicated by Robert Sinclair and William B. Mack.)
FOUQUE, PIERRE MARIE - -	2691	15th Sept. 1869	An improved holder for cartridges.
FOUR, VICTOR JOSEPH - -	1773	9th June 1869	An improved case or box for containing matches or other articles.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
FOUSSAT, FRANÇOIS, junior -	1370	4th May 1869	An auto-dynamic carbonic acid gas apparatus for raising liquids and for the preservation of beer. (Patented by William Edward Gedge.)
FOWKES, HENRY - - -	125	15th Jan. 1869	An improved rod to be employed for cleaning rifled or smooth bore gun barrels.
FOWLER, JAMES CALVERT -	1564	20th May 1869	Means for conducting electricity for communicating or transmitting signals and alarms.
FOWLER, JAMES CALVERT -	3245	11th Nov. 1869	Means or apparatus for signalling between various parts of a railway train.
FOX, EDWIN - - -	28	5th Jan. 1869	Manufacture of all descriptions of metallic iron and steel worked in puddling furnaces.
FOX, FRANCIS WILLIAM - -	837	19th March 1869	Locomotive engines and carriages for railways.
FOX, FRANCIS WILLIAM - -	2801	27th Sept. 1869	Locomotive and other engines and their steam-boilers.
FOX, GEORGE WAKEFIELD -	1850	16th June 1869	Treatment of castor, cod-liver and other medicinal oils in order to render the same more palatable.
FOX, HOWARD BUSBY - -	400	9th Feb. 1869	Improvements in rocking chairs and elastic seats applicable to other similar articles.
FOX, ISAAC - - -	1507	17th May 1869	Improvements in the manufacture of lace made on bobbin-net or twist-lace machines, and in the machinery or apparatus employed therein.
FOX, ISAAC - - -	3184	3rd Nov. 1869	Machinery or apparatus employed in the manufacture or production of piles on net or lace or other fabric made on twist lace machines.
FOX, SAMSON - - -	3444	27th Nov. 1869	Machinery or apparatus for boring, turning and polishing trenails, bobbins or other similar articles of wood or other materials.
FOX, SAMUEL - - -	842	19th March 1869	Permanent way of railways.
FOX, SAMUEL - - -	2874	11th Sept. 1869	Permanent way of railways.
FRANCE, THOMAS FRANCIS -	3782	31st Dec. 1869	Construction of baths and waterclosets.
FRANCIS, CHARLES - - -	1708	2nd June 1869	Construction of railway goods waggons. (Communicated by Franklin Prestige.)
FRANCIS, CHARLES - - -	1709	2nd June 1869	Construction of moorings. (Communicated by Franklin Prestige.)
FRANCIS, GEORGE WEEDEN -	1849	15th June 1869	An improved mode of and machinery for producing a polished or enamelled surface upon sheet iron. (Patented by William Robert Lake.)
FRANCIS, JAMES - - -	1233	21st April 1869	Locking apparatus used for railway sidings to prevent trucks or other carriages passing out from the sidings.
FRANKENBURG, ISIDOR - -	2246	24th July 1869	Manufacture of hats and hat bodies or other coverings for the head.
FRANKLIN, ALEXANDER CÆSAR [FREDERICK.]	1375	4th May 1869	Gas engines.
FRANKLIN, ALEXANDER CÆSAR [FREDERICK.]	2371	7th Aug. 1869	Bearings and lubricating apparatus for screw propeller and other revolving shafts.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
FRANZ, WILLIAM - - -	92	12th Jan. 1869	Knitting machinery. (Patented by Alfred Vincent Newton.)
FRASER, ALEXANDER BLACK -	2494	21st Aug. 1869	Improvements in and apparatus for extinguishing fires in the holds or below decks of navigable vessels, whether arising from spontaneous combustion or other cause.
FRASER, GEORGE COLEMAN -	3691	20th Dec. 1869	Improved means of disinfecting or drying clothes, bedding or other articles, also apparatus in connection therewith.
FRASER, JOHN HAZELL - -	3359	20th Nov. 1869	Boilers.
FRAZER, JOHN - - -	1653	28th May 1869	An improved machine for cutting and scoring pasteboard and similar materials one or several times at one operation.
FRAZER, WILLIAM - - -	2001	2nd July 1869	Preparation of materials for fettling or lining puddling furnaces and for other like uses.
FREARSON, JOHN - - -	2929	8th Oct. 1869	Improvements in water tuyeres for forges and furnaces, and in apparatus connected therewith.
FREBAULT, GILBERT ADOLPHE	1753	7th June 1869	An improved electoral box.
FRÉDUREAU, JEAN BAPTISTE -	2035	6th July 1869	Apparatus for heating and distilling water for boiler and other purposes. (Patented by Clinton Edgcumbe Brooman.)
FREEMAN, HENRY SAMUEL -	3429	27th Nov. 1869	Method of effecting the more perfect adjustment of men's wearing-apparel.
FREITEL, PIERRE - - -	2293	29th July 1869	An improved apparatus for lubricating parts of locomotive and other engines. (Patented by William Edward Gedge.)
FRENCH, CHARLES - - -	247	27th Jan. 1869	Means or apparatus for intercommunication on railway trains.
FRENGLEY, JACOB - - -	2511	24th Aug. 1869	An improved tell-tale clock.
FREUTEL, HENRY FREDERICK	555	22nd Feb. 1869	Manufacture of hats and caps and other coverings for the head.
FRIDLANDER, ALFRED EMA- [NUEL.	2842	30th Sept. 1869	Watches and chronometers.
FRIEDMANN, ADOLF - - -	1474	13th May 1869	An improved ornament for personal wear.
FRIEDMANN, ALEXANDER -	3152	30th Oct. 1869	Apparatus for feeding boilers and for raising and forcing fluids generally. (Patented by John Clayton Mewburn.)
FRINK, ISAAC PENDLETON -	2052	7th July 1869	Construction of chandeliers. (Patented by Alfred Vincent Newton.)
FRISBIE, MYRON JOHN - -	2273	27th July 1869	Carriage axles.
FROGGATT, CEPHAS - - -	1861	16th June 1869	Machinery used for felting or planking the bodies of hats or bonnets.
FROGGATT, JOHN - - -	2376	9th Aug. 1869	Pickers employed in the process of weaving.
FROHOCK, ROSCOE RAY - -	335	3rd Feb. 1869	An improved machine for making lasts.
FRÖLICH, JULIUS - - -	1316	28th April 1869	Apparatus for generating gas to be used in gas furnaces.
FROMENT, ANTOINE - - -	1307	28th April 1869	Percolators for infusing tea, coffee and other similar beverages.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
FRY, GEORGE - - -	1790	10th June 1869	Improvements in the treatment of wood for obtaining fibre for the manufacture of paper and cordage, also for the production of acid, spirit, ether, rosin and other substances or liquids from wood, and in machinery or apparatus therefor.
FRYER, ALFRED - - -	1073	8th April 1869	Improvements in the employment of apparatus used in the production of sugar from sugar cane or beet root, and in the construction of parts of the apparatus connected therewith.
FRYER, JOHN - - -	883	23rd March 1869	An improved rotary cultivator.
FULLER, CHARLES EDWARD -	3077	22nd Oct. 1869	Machines for manufacturing brushes. (Communicated by William Alexander Foskett and Henry Butler Tyler.)
FULLER, GEORGE - - -	3708	22nd Dec. 1869	Improvements in feeding-bottles and in the stoppers and fittings thereof, part of which improvements are also applicable to other purposes.
FULLER, WILLIAM FREDERICK	1552	19th May 1869	Apparatus for securing or fastening the doors of safes and strong rooms.
FURDERER & Co. - - -	123	15th Jan. 1869	Step ladders. (Patented by Arent de Peyster Chance.)
FURNESS, WILLIAM - - -	1592	24th May 1869	A new or improved clip or fastening for uniting the ends or other parts of driving belts or bands, applicable also to braces and other useful purposes.
FURNESS, WILLIAM - - -	2169	19th July 1869	Improvements in cutting files and rasps and in the machinery to be employed therein.
FYFE, DAVID ADAM - - -	2282	28th July 1869	Improvements in the manufacture of paper and in the machinery or apparatus connected therewith.

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GAHN, HENRIK - - -	1893	21st June 1869	Preserving animal and vegetable substances. (Patented by Martin Olsson.)
GAINÉ, ALFRED - - -	2844	30th Sept. 1869	Manufacture of knobs and furniture for doors, drawers and other similar objects.
GALIBERT, EMILE ETIENNE [AUGUSTE.]	1106	10th April 1869	Apparatus for removing hair from skins. (Patented by John Henry Johnson.)
GALL, CHARLES - - -	1754	7th June 1869	Steam-boiler and other furnaces.
GALLOWAY, CHARLES JOHN -	1385	5th May 1869	Slide valves and valve gear to piston valves for steam-engines.
GALLOWAY, WILLIAM - - -	1395	6th May 1869	Apparatus for breaking or retarding railway trains.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
GALLOWAY, WILLIAM - -	1396	6th May 1869	Apparatus for communicating between passengers, enginemen and guards in railway trains.
GALLOWAY, WILLIAM - -	3690	20th Dec. 1869	Improvements in joints or couplings for pipes, rods and other like articles, which improvements are also applicable for stopping pipes, bottles, casks and similar receptacles.
GANTHONY, ROBERT - -	3286	13th Nov. 1869	An improved inking or stamping pad.
GARBUTT, THOMAS HUSTLER -	266	28th Jan. 1869	Fire-bars.
GARDE, ADOLPHE - - -	2349	6th Aug. 1869	An improved ventilating hat.
GARDE, JULES - - -	2349	6th Aug. 1869	An improved ventilating hat.
GARDINER, ADDIN - - -	1770	8th June 1869	Improved means of checking the receipts of omnibus guards, conductors of public vehicles and other persons employed as money takers.
GARDINER, PERRY GREEN -	2009	3rd July 1869	Springs for railroad cars, buffers and various other purposes.
GARDINER, SAMUEL, junior -	730	10th March 1869	Devices for rendering gas-burners self lighting. (Patented by William Robert Lake.)
GARDNER, ALFRED - - -	623	1st March 1869	Construction of engines worked by steam or other motive-power.
GARDNER, CHARLES HENRY -	1489	14th May 1869	Lithographic and zincographic cylinder printing machines.
GARDNER, CHARLES HENRY -	1688	1st June 1869	An improved lubricator.
GARDNER, EDWARD VINCENT	1464	13th May 1869	A new or improved composition for coating ships, boats and other surfaces, and for protecting and preventing the fouling thereof.
GARDNER, FREDERICK - -	387	8th Feb. 1869	Knitting machines. (Patented by William Robert Lake.)
GARDNER, HENRY - - -	3389	24th Nov. 1869	Improvements in advertising sheets or papers, being an improved means of advertising, and in apparatus for the production of such advertising papers.
GARDNER, JOSEPH - - -	3605	13th Dec. 1869	An improved mode of cutting veneers. (Communicated by William Henry Williams.)
GARDNER, WILLIAM - - -	3192	3rd Nov. 1869	Improvements in mechanism or tools for the manufacture of parts of watches or timekeepers, and in the mode of securing the works of watches in their cases.
GARDNER, WILLIAM - - -	3242	11th Nov. 1869	An improved mode of ornamenting textile fabrics.
GARFIELD, EDWIN - - -	1849	15th June 1869	An improved mode of and machinery for producing a polished or enamelled surface upon sheet iron. (Patented by William Robert Lake.)
GARNER, BENJAMIN - - -	1650	28th May 1869	Improvements in the bearings of axles for railway carriages and trucks, and in lubricating the said axles.
GARRARD, GEORGE MINGAY -	2343	5th Aug. 1869	Means or apparatus employed in ploughing and tilling land.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
GARRARD, JOHN GOODJER -	3306	16th Nov. 1869	Construction of buffers adapted for railway carriages and other vehicles, and as a substitute for weight springs used therewith and for checking the recoil of heavy guns.
GARRETT, JOHN DUNNELL -	1119	12th April 1869	Construction of drop drills. (Patented by John Easton.)
GARRISON, ABRAHAM - -	495	18th Feb. 1869	An improved pendant string holder.
GARRS, HENRY DE - - -	1501	17th May 1869	Gas pendants and chandeliers.
GATLING, RICHARD JORDAN -	3303	16th Nov. 1869	Improved reloading cartridge shell. (Patented by Maurice Sautter.)
GATLING, RICHARD JORDAN -	3341	19th Nov. 1869	An improved revolving battery gun. (Patented by Alexander Melville Clark.)
GATTY, FREDERICK ALBERT -	641	3rd March 1869	A certain process or processes for obtaining the coloring matter of madder and another useful product.
GAULDIE, JOHN DUNCAN -	525	20th Feb. 1869	Steam-engines and boilers.
GAULTON, WILLIAM PEEL -	824	18th March 1869	Improvements in mechanism or apparatus for regulating the admission of air to steam-boiler and other furnaces arranged for consuming smoke and economizing fuel.
GAVIN, ALAN LAWRIE M ^c . -	1555	19th May 1869	Improvements in propelling and manoeuvring vessels and in the apparatus employed for such purposes. (Communicated by Benjamin Dickinson.)
GAVIN, ALAN LAWRIE M ^c . -	1556	19th May 1869	Constructing and propelling ships and other vessels. (Communicated by Benjamin Dickinson.)
GAYTON, JOHN - - -	1465	13th May 1869	A new or improved lever fastening for securely holding in a state of tension cords, cables, wire ropes, chains or the like.
GAZE, JONATHAN THOMPSON	557	23rd Feb. 1869	Grate bars.
GAZE, JONATHAN THOMPSON	2788	25th Sept. 1869	Fire bars.
GEAR, ALONZO STOCKBRIDGE	3628	15th Dec. 1869	Wood moulding and paneling machines. (Patented by Edward Thomas Hughes.)
GEDALGE, JONAS ELIAS -	1114	10th April 1869	Fountain pens. (Patented by Alexander Melville Clark.)
GEDALGE, JONAS ELIAS, junior	1168	15th April 1869	Compasses and pen and pencil cases or holders. (Patented by Alexander Melville Clark.)
GEDGE, JOHN - - -	2030	6th July 1869	An arm and reclining chair for travellers. (Communicated by Maxemin Guénerec.)
GEDGE, WILLIAM EDWARD -	67	9th Jan. 1869	Improvements in the manufacture and more particularly in the closing of tins or boxes for preserving provisions and for other uses, together with improved machinery or apparatus for effecting the same. (Communicated by Edmond Jean Bourguine.)
GEDGE, WILLIAM EDWARD -	87	12th Jan. 1869	An improvement in power looms. (Communicated by Jean Chrisostome Desumeur and Maxime Leclère.)
GEDGE, WILLIAM EDWARD -	210	22nd Jan. 1869	Improvements in machines for cutting into slate in quarries, applicable also to machines for cutting in coal pits, mines and stone quarries. (Communicated by Joseph Debry.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
GEDGE, WILLIAM EDWARD -	567	24th Feb. 1869	An improved hand-vice. (Communicated by <i>Pierre Amable Grilly</i> .)
GEDGE, WILLIAM EDWARD -	622	1st March 1869	Improvements in breech-loading fire-arms and in cartridges. (Communicated by <i>Georges Le Baron</i> .)
GEDGE, WILLIAM EDWARD -	670	5th March 1869	An improved process and improved apparatus having for object to preserve from oxydation iron ships and metallic surfaces or those of copper or iron with which wooden ships are sheathed, also applicable for testing the qualities and the homogeneity of metals. (Communicated by <i>Ernest Demance and Georges Jean Bertin</i> .)
GEDGE, WILLIAM EDWARD -	923	27th March 1869	A novel construction of box for holding matches and other articles. (Communicated by <i>Jules Trottier</i> .)
GEDGE, WILLIAM EDWARD -	979	31st March 1869	A novel method of fastening belts or bands by means of buckles with shifting wedges. (Communicated by <i>Jean Chrysostome Desumeur, Celestin and Edouard Dudin Brothers and Louis Delacourt</i> .)
GEDGE, WILLIAM EDWARD -	1048	7th April 1869	A novel system of self-acting ventilating apparatus, applicable also to other purposes and termed "aerospires." (Communicated by <i>Louis Edouard Gourdon-Fromental</i> .)
GEDGE, WILLIAM EDWARD -	1209	20th April 1869	An improved water meter. (Communicated by <i>Armand Charles Barre</i> .)
GEDGE, WILLIAM EDWARD -	1319	28th April 1869	Construction of pianofortes and other stringed instruments. (Communicated by <i>Frederic Bauer</i> .)
GEDGE, WILLIAM EDWARD -	1370	4th May 1869	An auto-dynamic carbonic acid gas apparatus for raising liquids and for the preservation of beer. (Communicated by <i>François Poussat, junior</i> .)
GEDGE, WILLIAM EDWARD -	1774	9th June 1869	An improved machine or apparatus for treating leather to render it suitable for making straps, belts or bands. (Communicated by <i>Camille Eugène Bonnot</i> .)
GEDGE, WILLIAM EDWARD -	1969	30th June 1869	An improved carriage spring. (Communicated by <i>Nathalie Ortric, Widow Cornebois</i> .)
GEDGE, WILLIAM EDWARD -	1970	30th June 1869	The incorporation of extract of meat with all kinds of sweetmeats or cornfits, with syrups or any sweet or glucose matter, with quinine wine and all kinds of wines prepared with quinquina. (Communicated by <i>François Aroud</i> .)
GEDGE, WILLIAM EDWARD -	1978	1st July 1869	An improved safety break for railway vehicles. (Communicated by <i>Silvestre Guillard</i> .)
GEDGE, WILLIAM EDWARD -	2176	19th July 1869	An improved method of and apparatus for generating steam. (Communicated by <i>Auguste Butin-Denniel</i> .)
GEDGE, WILLIAM EDWARD -	2293	29th July 1869	An improved apparatus for lubricating parts of locomotive and other engines. (Communicated by <i>Pierre Freitel</i> .)

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AND APPLICANTS FOR PATENTS OF INVENTION.

[Ged]

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
GEDGE, WILLIAM EDWARD -	2325	3rd Aug. 1869	An improved curry-comb. (Communicated by Julien Pierre Even.)
GEDGE, WILLIAM EDWARD -	2543	27th Aug. 1869	A novel construction of railway sleeper. (Communicated by Camille Bernard.)
GEDGE, WILLIAM EDWARD -	2624	6th Sept. 1869	Apparatus for rectifying alcohols. (Communicated by Léon Victor Jacquemard.)
GEDGE, WILLIAM EDWARD -	2677	13th Sept. 1869	An improved apparatus for preventing liquids in ebullition from boiling over. (Communicated by Pierre Moreau and Léonide Mouly.)
GEDGE, WILLIAM EDWARD -	2682	14th Sept. 1869	A novel construction of vehicle for locomotion by land and water. (Communicated by Charles Devauchelle.)
GEDGE, WILLIAM EDWARD -	2695	15th Sept. 1869	A novel instructive and amusing geographical game and apparatus therefor. (Communicated by Dominique Hector Dauzats.)
GEDGE, WILLIAM EDWARD -	2732	20th Sept. 1869	An improved press bed. (Communicated by Charles Michel Fleury.)
GEDGE, WILLIAM EDWARD -	2767	23rd Sept. 1869	An improved drying machine with application of central ventilation. (Communicated by Emile Welter.)
GEDGE, WILLIAM EDWARD -	2983	14th Oct. 1869	A novel mode of putting up or incasing packets of needles. (Communicated by Eugène Bédé.)
GEDGE, WILLIAM EDWARD -	3015	15th Oct. 1869	An improved elastic horse-shoe. (Communicated by Charles Jean Baptiste Peillard.)
GEDGE, WILLIAM EDWARD -	3153	30th Oct. 1869	A novel method of welding iron or any other metal in the manufacture of every kind of water or gas pipe, boxes for power shafts, axle boxes, tubes, coupling boxes, gun barrels and generally of all the cylinders and cones entering into the manufacture of fire-arms, as also in all analogous manufactures. (Communicated by Gustave Lion.)
GEDGE, WILLIAM EDWARD -	3197	4th Nov. 1869	Velocipedes. (Communicated by Jean Crabos.)
GEDGE, WILLIAM EDWARD -	3274	13th Nov. 1869	A new or improved composition to be used as a coating for preserving metal and other surfaces, also as a cement or luting. (Communicated by Jules Crouzières.)
GEDGE, WILLIAM EDWARD -	3275	13th Nov. 1869	An improved machine for cutting, drilling and shaping wood and metals. (Communicated by Dominique Jules Bouchot.)
GEDGE, WILLIAM EDWARD -	3288	15th Nov. 1869	A novel manufacture of box for matches and other objects. (Communicated by Jules Trottier.)
GEDGE, WILLIAM EDWARD	3362	23rd Nov. 1869	An improved system of hydraulic traction on railways and other roads. (Communicated by Giovanni Cavalli.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
GEDGE, WILLIAM EDWARD -	3415	25th Nov. 1869	The composition and application of a novel powder for destroying the oidium in vines and other plants, and the application of a mixture of some of its ingredients in a liquid state to destroy parasites between the bark and wood of trees. (Communicated by <i>Claude Paul Folliet</i> .)
GEDGE, WILLIAM EDWARD -	3570	10th Dec. 1869	Velocipedes. (Communicated by <i>Antoine Bœuf and François Nicolet</i> .)
GEDGE, WILLIAM EDWARD -	3662	18th Dec. 1869	An improved system of pessary. (Communicated by <i>Celina Lebrun, Adrienne Lebrun and Henri Houzé</i> .)
GEDGE, WILLIAM EDWARD -	3693	21st Dec. 1869	Improved machinery for shearing and cleansing woven fabrics. (Communicated by <i>Jean Baptiste Bourge and Jean Baptiste Lefebvre</i> .)
GEDGE, WILLIAM EDWARD -	3694	21st Dec. 1869	A self-acting apparatus for preventing accidents from steam machinery. (Communicated by <i>Victor Moreaux</i> .)
GEE, WALTER MC - - -	3612	14th Dec. 1869	Machinery for doubling and winding fibrous materials.
GEE, WILLIAM MC - - -	2638	30th Sept. 1869	Improvements in winding thread or yarn upon pirns and in apparatus therefor.
GEE, WILLIAM MC - - -	3325	18th Nov. 1869	Apparatus for winding thread or yarn upon pirns.
GEE, WILLIAM MC - - -	3612	14th Dec. 1869	Machinery for doubling and winding fibrous materials.
GEEVES, WILLIAM - - -	3528	6th Dec. 1869	Improvements in the manufacture of capsules or packages for containing tea and other like articles, and in apparatus employed in such manufacture.
GEFLOWSKI, MAURICE - -	1993	2nd July 1869	A new and improved billiard and bagatelle room convenience. (Patented by <i>Henri Adrien Bonneville</i> .)
GEGNON, PIERRE ERNEST -	3072	21st Oct. 1869	Improvements in hinges and hinge guards for railway carriage and other doors, part of which improvements is applicable for warming and ventilating railway carriages. (Patented by <i>Alexander Melville Clark</i> .)
GELSTHARP, CHARLES - -	2503	23rd Aug. 1869	Extraction of copper from its ores.
GELSTHARP, CHARLES - -	3074	22nd Oct. 1869	Improvements in the construction of furnaces for calcining ores and other substances and in the method of working the same.
GEMMELL, ALEXANDER - -	2232	22nd July 1869	Boilers and furnaces for producing super-heated steam. (Patented by <i>Robert Boyd</i> .)
GEOFROY, LUCIEN - - -	2722	18th Sept. 1869	New and improved means for utilizing the waste arising in spinning vegetable fibrous materials. (Patented by <i>Henri Adrien Bonneville</i> .)
GEORGE, BENJAMIN GEORGE -	8	1st Jan. 1869	Manufacture of show cards, almanacks, book covers and other ornamental surfaces.
GEORGE, IVIE MACKIE MC -	1494	15th May 1869	A new and improved velocipede.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
GEORGE, ROBERT - - -	1733	4th June 1869	Improvements in sewing-machines, part of which improvements is also applicable to other machinery in which rotary motion is to be converted into reciprocating motion.
GERALD, CHARLES LIONEL [WINGFIELD FITZ.]	1207	20th April 1869	Mode or method of drying animal and vegetable matters.
GERALD, DESMOND GERALD [FITZ.]	501	18th Feb. 1869	A new or improved mode of constructing electric telegraphs and voltaic batteries.
GERALD, DESMOND GERALD [FITZ.]	3896	21st Dec. 1869	A new or improved mode of constructing electric telegraphs.
GÉRARD, CHARLES - - -	2645	8th Sept. 1869	Metallic packing for piston rods and other purposes. (Patented by William Edward Newton.)
GESSERT, JULIUS - - -	2077	10th July 1869	Improvements in the recovery of nitric acid in the manufacture of sulphuric acid, and in apparatus connected therewith.
GÉVELOT, JULES FÉLIX - -	118	14th Jan. 1869	Breech-loading fire-arms and cartridges. (Patented by Alexander Melville Clark.)
GHISI, JOSEPH - - -	3646	17th Dec. 1869	A new and useful system of spherical ship with circular steam-engine, for the use of marine locomotion and application of the machine to land locomotion, also of same system to other motive-power engines.
GIBB, THOMAS - - -	2503	23rd Aug. 1869	Extraction of copper from its ores.
GIBB, THOMAS - - -	3074	22nd Oct. 1869	Improvements in the construction of furnaces for calcining ores and other substances, and in the method of working the same.
GIBBONS, ROBERT - - -	1104	10th April 1869	Improved apparatus for facilitating the consumption of smoke.
GIBBS, DAVID ASPLAND -	2413	13th Aug. 1869	Compositions for coating or covering the sides and bottoms of ships and vessels.
GIBBS, EDWARD WILLIAM [PRICE.]	808	17th March 1869	The improvement in the method of propulsion of vehicles commonly denominated velocipedes, by the application of levers of unequal arms acting on cranks fixed in the axle of the rear wheel or wheels and on a fixed or moveable fulcrum.
GIBBS, ROBERT RENTON -	2752	22nd Sept. 1869	Improvements in pumps, vacuum pumps and blast engines, and in lubricators for the same, which are also applicable to other lubricating purposes.
GIBSON, HENRY - - -	254	27th Jan. 1869	Improvements in the manufacture of tobacco and in the machinery or apparatus employed therefor.
GIBSON, HENRY - - -	763	12th March 1869	Improvements in the manufacture of tobacco and in the machinery or apparatus employed therefor.
GIBSON, HENRY - - -	2612	4th Sept. 1869	Improvements in the manufacture of tobacco and in the machinery or apparatus employed therefor.
GIBSON, JOHN, junior, -	3762	29th Dec. 1869	Improvements in tilting vessels or utensils, and in stands or supports for the same. (Patented by William Edward Newton.)
GIBSON, JOHN WILLIAM -	583	25th Feb. 1869	Friction rollers applicable to rolling bridges.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
GIBSON, WILLIAM - - -	992	1st April 1869	Cramp keys or implements for taking to pieces, putting together and lubricating breech-loading fire-arms and, for other like uses.
GIFFARD, HENRY - - -	1916	23rd June 1869	Injectors for feeding steam generators. (Patented by John Henry Johanson.)
GIL, CLAUDIO - - -	246	26th Jan. 1869	Manufacture of sugar.
GILBEE, WILLIAM ARMAND -	690	8th March 1869	An improved apparatus for raising water. (Communicated by Jan Barend Hendrik Van Royen.)
GILBEE, WILLIAM ARMAND -	1595	24th May 1869	Ice-houses, store-rooms and refrigerators. (Communicated by Edwin Dwight Brainard.)
GILBEE, WILLIAM ARMAND -	1798	10th June 1869	An improved method of conveyance and transportation in pneumatic tubes. (Communicated by Albert Brisbane.)
GILBEE, WILLIAM ARMAND -	2227	22nd July 1869	An improved method of preserving the aromatic principle of hops. (Communicated by Edwin Dwight Brainard.)
GILBEE, WILLIAM ARMAND -	2735	20th Sept. 1869	Apparatus for heating wines and other fermentable liquids, parts of such apparatus being also applicable to other purposes. (Communicated by Edmond Philibert Jean Louis Terrel des Chênes.)
GILBERT, JAMES - - -	3576	10th Dec. 1869	Shuttle sewing-machines.
GILCHRIST, ARCHIBALD - -	2478	19th Aug. 1869	Slide valves.
GILES, SAMUEL - - -	3671	18th Dec. 1869	Apparatus to be used in the fermentation of worts and other fermentable liquids.
GILL, WILLIAM - - -	560	23rd Feb. 1869	Rotary engines and pumps.
GILLAN, HUGH - - -	2283	28th July 1869	Apparatus for spinning or twisting and rolling tobacco.
GILLESPIE, WALTER - - -	1133	13th April 1869	Improvements in furnace bars and in the mode of arranging and using them so as to consume smoke and economize fuel.
GILLETT, WILLIAM - - -	180	20th Jan. 1869	Improvements in mechanism for bell and clock chimes, such improvements being also applicable to keyed automatic or other musical instruments.
GILLHAM, FREDERICK - - -	817	17th March 1869	Improvements applicable to hats and other like coverings for the head.
GILLIES, JAMES - - -	2653	9th Sept. 1869	Improvements in bushes or shields for the bungholes of casks or other vessels, and in the means employed for fixing the same therein.
GILMORE, ARTHUR HAMILTON	2654	9th Sept. 1869	Means for protecting or shielding wounds, cutaneous injuries and sores.
GILMORE, ARTHUR HAMILTON	2688	14th Sept. 1869	Safety lamps for mining and other purposes.
GINDER, EDWARD - - -	2267	26th July 1869	Breech-loading fire-arms.
GIRARD, ADAM CHARLES -	3675	18th Dec. 1869	Treatment of aromatic secondary monamines for obtaining coloring matter. (Patented by George Tomlinson Bousfield.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
GIRARD, LOUIS DOMINIQUE -	2506	23rd Aug. 1869	Improvements in railways and in railway rolling stock, parts of which improvements are also applicable to other purposes.
GIRDLESTONE, HENRY JOHN -	3742	24th Dec. 1869	"Dry" closets, commodes and urinals.
GIRDLESTONE, JOHN WARD -	934	27th March 1869	Constructing and treating ships and vessels to correct and prevent compass deviations.
GIRDLESTONE, JOHN WARD -	3742	24th Dec. 1869	"Dry" closets, commodes and urinals.
GIRDWOOD, ROBERT - -	257	27th Jan. 1869	Improvements in envelopes and in bags such as are used for transmitting samples.
GIRDWOOD, WILLIAM WALLACE	3136	29th Oct. 1869	An improved self lubricating metallic elastic packing especially adapted for high temperatures.
GISBORNE, FREDERIC NEWTON	49	7th Jan. 1869	Means or apparatus for giving motion to sewing and other machines.
GISBORNE, FREDERIC NEWTON	75	11th Jan. 1869	Certain improved apparatus to be employed for signals on railway trains and for the like purposes.
GISBORNE, FREDERIC NEWTON	635	2nd March 1869	Manufacture of tubes of metal to be employed in the construction of tubular telegraph poles, masts and spars, steam tubes and similar purposes.
GISBORNE, JOHN SACHEVERELL	40	6th Jan. 1869	Mechanical telegraphs.
GLAS, ANTON JOSEPH - -	1895	21st June 1869	A new mode of and apparatus for decortivating, separating the germ and drying wheat or other grain.
GLATTARD, AUGUSTE - -	789	15th March 1869	Improvements in healds and heald frames for weaving, and in the manufacture of the said healds. (Patented by Charles Denton Abel.)
GLEASON, ELLIOTT PERRY -	2354	6th Aug. 1869	Devices for holding the chimneys of gas-burners and other lighting apparatus. (Patented by William Robert Lake.)
GLEASON, ELLIOTT PERRY -	2355	6th Aug. 1869	Expanding drills for boring rocks. (Patented by William Robert Lake.)
GLEDHILL, PETER - - -	3759	29th Dec. 1869	Machinery for cutting coal and other minerals.
GLOVER, FREDERICK ROBERT [AUGUSTUS.]	50	7th Jan. 1869	Means of and apparatus for letting down, weighing and fishing ships' anchors.
GLOVER, FREDERICK ROBERT [AUGUSTUS.]	1460	12th May 1869	Improvements in anchors and in the gear for facilitating the weighing and boarding of anchors.
GLOVER, FREDERICK ROBERT [AUGUSTUS.]	1705	2nd June 1869	Anchors.
GLOVER, FREDERICK ROBERT [AUGUSTUS.]	2877	4th Oct. 1869	Improvements in anchors and in the gear for facilitating the weighing and boarding of anchors.
GLOVER, GEORGE - - -	744	11th March 1869	Imparting colours to hydro-carbonaceous fluids. (Communicated by Laslo Chandor.)
GLOVER, WILLIAM - - -	2576	31st Aug. 1869	Looms for weaving.
GODDARD, BENJAMIN - -	2306	31st July 1869	Machinery or apparatus for mixing substances for pills, ointment and other purposes, and for making pills and globular articles of plastic substances.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
GODDARD, BENJAMIN - -	3406	25th Nov. 1869	Improved machinery for pill mass-mixing and pill making, mixing plastic substances, making plaster rolls and for other similar or analogous purposes.
GODDARD, RICHARD CARTER -	3660	18th Dec. 1869	An improved portable cooking apparatus.
GODEFROY, PETER AUGUSTIN	2075	10th July 1869	The manufacture of new or improved dyes or colouring matter from materials not hitherto used for such purposes.
GODFREY, JOSEPH STEPHEN -	3687	20th Dec. 1869	Ploughs and cultivators for tilling the soil. (Patented by Charles Denton Abel.)
GOËSBRIAND, MARC HYA- [CINTHE DE.	1596	24th May 1869	Steam motors.
GOETZ, LEOPOLD - - -	1202	20th April 1869	An improved preparation of materials for cleansing wool, cotton, linen and other like fibrous substances. (Communicated by Georg Müller.)
GOGUEL, EUGENE FREDERIC [ALEXANDRE.	1159	14th April 1869	Improvements in the means of producing motive-power and in the apparatus connected therewith. (Patented by Clinton Edgcumbe Broome.)
GOLDBERG, LOUIS - - -	2563	30th Aug. 1869	Improvements in watches, toy-watches, personal ornaments, purses, pocket-books, walking-sticks and certain other portable articles.
GOLDRING, HENRY WILLIAM -	644	3rd March 1869	Improved machinery or apparatus for cleaning cotton seed.
GOLDRING, HENRY WILLIAM -	720	9th March 1869	Improved machinery or apparatus for the manufacture of soap.
GOLDSMITH, GEORGE - -	721	9th March 1869	Improvements in means and apparatus for communicating or signalling from one portion of a railway train to another, parts of which improvements are also applicable to other purposes.
GOODALL, EDWIN FREDERICK	3407	25th Nov. 1869	Excise ink bottles and other ink bottles and inkstands.
GOODBODY, ROBERT JAMES -	620	1st March 1869	Improvements in treating tobacco and in apparatus employed for that purpose.
GOODBODY, ROBERT JAMES -	3073	22nd Oct. 1869	A new or improved apparatus for roasting tobacco for snuff, also applicable for roasting, baking, burning or drying coffee, malt and other granular, pulverous and vegetable substances.
GOODREDS, WILLIAM - -	1042	7th April 1869	Certain improvements in the construction of furnace doors for puddling furnaces.
GOODWIN, WILLIAM FARR -	1087	9th April 1869	An improved means of and apparatus for obtaining motive-power for driving various kinds of light machinery. (Patented by William Edward Newton.)
GOODYEAR, JAMES - - -	547	22nd Feb. 1869	Machinery or apparatus for winding alivers or laps of wool, flax, cotton or other fibrous materials.
GORDON, CHARLES - - -	446	13th Feb. 1869	Construction of breech-loading fire-arms.
GORDON, CHARLES - - -	3753	28th Dec. 1869	Construction of breech-loading fire-arms.
GORMAN, WILLIAM - - -	3267	12th Nov. 1869	Improvements in the manufacture of iron and steel and in apparatus therefor, parts of the improvements being also applicable to furnaces of various kinds and parts to some motive-power purposes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
GOSLING, WILLIAM HENRY -	2221	22nd July 1869	Sewing-machines.
GOSSAGE, WILLIAM - -	3295	15th Nov. 1869	Improvements in obtaining a certain compound of soda by the decomposition of sulphate of soda, and a certain compound of potassa by the decomposition of sulphate of potassa, also in obtaining sulphur, either free or combined, from the gaseous products of such decompositions.
GOSSAGE, WILLIAM - -	3700	21st Dec. 1869	Treating gases evolved during the processes of smelting copper ores so as to prevent the noxious action of such gases on vegetation.
GOUGH, JAMES BERNARD -	3717	23rd Dec. 1869	An improved collar stud.
GOUGH, JOHN - - -	250	27th Jan. 1869	A new or improved apparatus for applying ink or color to printing surfaces.
GOUGH, JOHN - - -	666	4th March 1869	Improvements in the construction of cylinders for containing and distributing colour, ink or fluid, in the combination of the same with a composition roller or rollers, and in machinery or apparatus employed therewith.
GOUGH, PETER MC - -	2593	2nd Sept. 1869	Sash frames and sashes particularly applicable to the windows of railway and other carriages.
GOULDING, JOHN - - -	2537	26th Aug. 1869	Machinery for carding and spinning fibrous materials. (Patented by William Robert Lake.)
GOULDING, JOHN - - -	2745	21st Sept. 1869	Spindles and fliers of spinning frames. (Patented by William Robert Lake.)
GOULDING, WILLIAM PURDHAM	318	2nd Feb. 1869	Evaporating and calcining alkaline solutions which have been used to boil vegetable fibres.
GOURDON-FROMENTAL, LOUIS [EDOUARD.	1048	7th April 1869	A novel system of self-acting ventilating apparatus, applicable also to other purposes and termed "aerospires." (Patented by William Edward Gedge.)
GOZNEY, JAMES - - -	1318	28th April 1869	Apparatus to be used in cultivating land when steam power is employed.
GRABHAM, EDWIN JOHN -	2419	13th Aug. 1869	Machinery or apparatus for plaiting or folding textile fabrics, paper and other like materials.
GRABOWSKI, HERMANN -	1645	28th May 1869	An improved motive-power for driving velocipedes, sewing-machines and for other similar purposes.
GRACE, THEODORE - - -	2324	3rd Aug. 1869	Improved apparatus for stoppering bottles.
GRADWELL, WILLIAM - -	1155	14th April 1869	Steam-boilers.
GRADWELL, WILLIAM JAMES -	3148	30th Oct. 1869	Certain improvements in machinery for spinning and doubling.
GRAEBE, CHARLES - - -	1936	25th June 1869	Preparing coloring matters.
GRAHAM, JOHN W. - - -	2509	23rd Aug. 1869	Posts or standards for gas lamps. (Patented by William Robert Lake.)
GRAHAME, THOMAS - - -	2013	3rd July 1869	Construction of barges, boats, floating batteries and other floating structures.
GRANIER, EMILE - - -	685	6th March 1869	Improvements in envelopes and in the means employed for securing their contents. (Patented by Alexander Melville Clark.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
GRANT, JOHN JACKSON - -	2577	31st Aug. 1869	Washing-machines. (Patented by William Edward Newton.)
GRANT, LEWIS - - -	3212	5th Nov. 1869	Motive-power engines.
GRANVILLE, AUGUSTUS KERR [Bozzi.	1041	6th April 1869	Beating engines for preparing materials for the manufacture of paper.
GRANVILLE, FREDERICK JOHN	3389	24th Nov. 1869	Improvements in advertising sheets or papers, being an improved means of advertising, and in apparatus for the production of such advertising papers.
GRAU, FLORENT - - -	2872	4th Oct. 1869	Lamp sockets having a double air current for burning paraffin, petroleum and other mineral oils.
GRAY, EDWARD - - -	71	9th Jan. 1869	Manufacture of plough coulters.
GRAY, JOHN MCFARLANE -	3704	22nd Dec. 1869	Marine compound steam-engines.
GRAY, MATTHEW - - -	531	20th Feb. 1869	An improvement in the manufacture of covered electrical conductors.
GRAY, THOMAS - - -	1947	26th June 1869	Manufacture of varnishes.
GRAYSON, JOHN ROBERT -	3076	22nd Oct. 1869	Apparatus for clipping or shearing horses and other animals.
GREATOREX, JOHN LOWE -	1457	12th May 1869	Urinals.
GREAVES, HUGH - - -	2247	24th July 1869	Construction of the permanent way of railways and tramways, and the carriages and engines used thereon.
GREAVES, SAMUEL HORRABIN	2596	3rd Sept. 1869	Improvements in the manufacture of knives and forks, spear points, daggers and such like instruments, and in the means or apparatus employed therein.
GREELY, JOHN PEVEAR - -	3564	9th Dec. 1869	Fire-resisting safes, steam-boilers, pipes or various other articles liable to exposure to heat. (Patented by Russell Arnold Ballou.)
GREEN, CYREL WARRINGTON	214	23rd Jan. 1869	Machines for quarrying and sawing stone or minerals. (Patented by John Millward.)
GREEN, GEORGE - - -	347	4th Feb. 1869	Machinery or apparatus for stretching, "swissing" and finishing muslins or other similar fabrics.
GREEN, GEORGE - - -	524	20th Feb. 1869	Buddles for separating ores and other materials.
GREEN, GEORGE - - -	1212	20th April 1869	Apparatus for separating ores and other materials.
GREEN, HENRY - - -	3695	21st Dec. 1869	Lubricators.
GREEN, JAMES - - -	2112	13th July 1869	Mowing and reaping machines. (Patented by Alfred Vincent Newton.)
GREEN, JOHN - - -	2224	22nd July 1869	Improvements in the manufacture of ropes, cords and twines, and in the machinery therefor.
GREEN, JOSEPH - - -	1901	21st June 1869	Furnaces.
GREEN, RICHARD JOHN - -	233	25th Jan. 1869	Collar studs or buttons, shirt studs, sleeve links and other like articles.
GREEN, THOMAS - - -	6	1st Jan. 1869	Steam and other boilers.
GREEN, THOMAS - - -	7	1st Jan. 1869	Bushing the bung holes of casks and other vessels.
GREEN, THOMAS GOODWIN -	3473	1st Dec. 1869	Improved machinery or appliances for use in the manufacture of articles of earthenware and china-ware.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
GREEN, WILLIAM - - -	1528	18th May 1869	A new and improved apparatus for cleaning flower and garden pots.
GREEN, WILLIAM CHARLES -	3589	11th Dec. 1869	Breech-loading fire-arms.
GREENE, JAMES DURELL -	828	18th March 1869	Anchors. (Patented by William Robert Lake.)
GREENFIELD, JOHN - -	421	10th Feb. 1869	Hop-scotch cloths or boards.
GREENFIELD, JOHN TYNDALE	910	25th March 1869	An improved side arm for clearing the chambers and rifling of ordnance.
GREENFIELD, JOHN TYNDALE	2369	7th Aug. 1869	Life buoys.
GREENFIELD, JOHN TYNDALE	2783	24th Sept. 1869	An improved side arm for clearing the chambers and rifling of ordnance.
GREENSLADE, JOHN - -	1031	5th April 1869	Improvements applicable to traction engines.
GREENSTREET, THOMAS [GEORGE.	1761	7th June 1869	An improved street sweeping machine.
GREENWOOD, JAMES WILLIAM	3636	16th Dec. 1869	An improved fastening for buckles.
GREENWOOD, THOMAS - -	660	4th March 1869	Screw gill roving frames.
GREENWOOD, THOMAS - -	752	11th March 1869	An improved method of and apparatus for preparing or slivering the short drafts of dressed silk waste or other fibrous materials.
GREENWOOD, THOMAS - -	966	31st March 1869	Improvements in the manufacture of boots and shoes, and in machinery to be used in such manufacture.
GREENWOOD, THOMAS - -	1341	1st May 1869	Machinery for cutting joints for boxes, drawers and other receptacles of wood.
GREENWOOD, THOMAS - -	2586	1st Sept. 1869	Improved machinery for combing silk and other fibrous materials.
GREENWOOD, THOMAS - -	2955	11th Oct. 1869	Improvements in the manufacture of boots and shoes, and in machinery to be used therein.
GREENWOOD, WILLIAM - -	1807	12th June 1869	Improved apparatus or appliances to be employed for sizing and warping yarns and for weaving.
GREGG, WASHINGTON PARKER	2917	7th Oct. 1869	Invention having reference to parlor or roller skates.
GREGOR, ALEXANDER MC -	131	15th Jan. 1869	Reaping and mowing machines.
GREGOR, ALEXANDER MC -	658	4th March 1869	Machinery or apparatus for reaping and mowing, and for spreading and collecting grass.
GREGOR, JAMES M ^c - -	1562	20th May 1869	Preservation of iron and steel and structures composed thereof.
GREGOR, OLIVER EDGAR MAC	995	1st April 1869	Carpenters' and joiners' planes.
GREGOR, PETER M ^c - -	1541	19th May 1869	Machinery for spinning and doubling.
GREGORY, ISAAC - - -	1873	18th June 1869	An improved drag motion applied to throstle frames and doubling frames used for spinning and doubling cotton and other fibrous substances.
GREGSON, ROBERT - - -	877	23rd March 1869	Construction of fire bars to be employed in furnaces.
GREIG, DAVID - - -	1318	28th April 1869	Apparatus to be used in cultivating land when steam power is employed.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
GREW, NATHANIEL - -	3744	24th Dec. 1869	Apparatus for measuring the weight or volume of water or other fluid supplied to steam-boilers or other vessels, and the quantity of caloric transmitted to the same. (Communicated by William Fischer and Theodor Stiehl.)
GREYVELDINGER, MICHEL -	2932	9th Oct. 1869	Liquid meters or apparatus for measuring the flow of liquids. (Patented by Clinton Edgcombe Brooman.)
GRICE, JOHN - - - -	2581	1st Sept. 1869	Axles for carriages.
GRIDLEY, JOHN BENTON -	980	31st March 1869	Improved paper pulp. (Communicated by John George Holbrooke.)
GRIERSON, HENRY HOULDS- [WORTH.	3283	13th Nov. 1869	Machinery for cutting or dressing stone.
GRIERSON, JOHN SIDDONS -	3100	26th Oct. 1869	An improved machine or apparatus for bronzing, coloring and illuminating cards and paper of all descriptions, the same being applicable to bronzing or coloring wall papers.
GRIFFIN, GEORGE FEATHER- [STONE.	1014	3rd April 1869	Permanent way of railways and tramways.
GRIFFIN, JAMES THEODORE -	577	24th Feb. 1869	Harvesting machines. (Communicated by Cyrus Newhall.)
GRIFFIN, JAMES THEODORE -	1480	14th May 1869	Improvements in the manufacture of knives and forks and in handles for the same. (Communicated by Charles Moore.)
GRIFFIN, JAMES THEODORE -	3477	1st Dec. 1869	Preparing, treating and curing sponge to render it elastic and suitable for use as a stuffing for beds, cushions, seats and other similar articles. (Communicated by William Henry Spencer.)
GRIFFING, JOHN STARR - -	1585	22nd May 1869	Improvements in horse-shoe nails and in machinery for the manufacture of the same. (Patented by Edward Thomas Hughes.)
GRIFFITH, JOHN - - - -	3754	28th Dec. 1869	Sectional steam-boilers. (Patented by William Robert Lake.)
GRIFFITH, ROBERT - - -	1323	29th April 1869	Two-wheel velocipedes and other conveyances.
GRILLY, PIERRE AMABLE -	567	24th Feb. 1869	An improved hand-vice. (Patented by William Edward Gedge.)
GRIMSHAW, WILLIAM DAKIN -	228	25th Jan. 1869	Machinery for stamping and forming articles of sheet metal. (Patented by William Edward Newton.)
GRINT, JAMES - - - -	2146	16th July 1869	Circular saw benches.
GRISWOLD, HENRY JOSIAH -	2757	22nd Sept. 1869	Sewing-machine and other needles. (Patented by William Robert Lake.)
GROGAN, HENRY - - - -	956	30th March 1869	An improved method of and apparatus for distilling hydrocarbon oils. (Patented by Thomas Evan Williams.)
GROS, GEORGES - - - -	407	10th Feb. 1869	A novel kind of self closing box permanently kept closed and intended to contain such objects or substances as require to be carefully shut up.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
GROTHE, ALBERT - - -	3183	3rd Nov. 1869	Apparatus for registering the number of passengers travelling in or on public conveyances.
GROUSE, MICHAEL - - -	2683	14th Sept. 1869	Envelopes.
GROVES, HARRISON - - -	836	19th March 1869	Improvements in the manufacture of iron and steel, and in furnaces and apparatus employed therein.
GRUBB, CHARLES ROBERT ED- [WARD.	15	2nd Jan. 1869	An improvement in candlesticks.
GRÜNE, FRIEDRICH WILHELM	2022	5th July 1869	Transferring photographs to wood, metal, ivory and other surfaces.
GRUYER, ACHILLE - - -	1019	3rd April 1869	Parasols or umbrellas. (Patented by John Garrett Tongue.)
GUAY, LOUIS GILBERT LE -	2410	12th Aug. 1869	An improved construction of submarine and other tunnels.
GUÉNERET, MAXEMIN - - -	2030	6th July 1869	An arm and reclining chair for travellers. (Patented by John Gedge.)
GUERNSEY, SAMUEL BUSHNELL	750	11th March 1869	Cases for holding cigars and other articles. (Patented by William Edward Newton.)
GUERRIÈRO, — - - -	286	29th Jan. 1869	Horse shoes. (Patented by Adolphe Mallard.)
GUESNE, JULES - - - -	3251	11th Nov. 1869	A new and improved combined piano forte and harmonium.
GUEST, WILLIAM - - - -	2361	7th Aug. 1869	Clearers used in machinery for preparing and spinning cotton and other fibrous materials.
GUILD, ALEXANDER - - -	696	8th March 1869	Preparing for spinning jute and other vegetable fibres.
GUILLOT, AUGUSTE A. - - -	1196	19th April 1869	Improvements in lavatories and in taps, valves and fittings to be used in connection therewith for regulating the admission and discharge of water, which taps and valves are also applicable to other purposes. (Patented by William Henry Smith, the younger.)
GUILLOT, LEONTINE MARIE -	332	3rd Feb. 1869	Construction of corsets or stays. (Patented by Clinton Edgcumbe Brooman.)
GUITARD, SILVESTRE - - -	1978	1st July 1869	An improved safety break for railway vehicles. (Patented by William Edward Gedge.)
GUMPEL, CHARLES GODFREY -	197	21st Jan. 1869	Improvements applicable to keyhole plates and escutcheons.
GUMPEL, CHARLES GODFREY -	3173	2nd Nov. 1869	Improvements in ships' rudders and in steering gear therefor.
GÜNTHER, CHARLES JOHN - -	98	13th Jan. 1869	Salting and preserving meat. (Communicated by Baron Justus Von Liebig.)
GUTTON, BARTHELEMY [ANTOINE.	769	12th March 1869	Process of and apparatus for the manufacture or recovery of salt from salt water or brine. (Patented by Clinton Edgcumbe Brooman.)
GUTZKOW, FREDERICK - - -	1868	17th June 1869	An improved process for preparing sulphates and obtaining fine silver therefrom. (Patented by William Robert Lake.)

<i>Name of Patentee.</i>	<i>Number of Patent.</i>	<i>Date.</i>	<i>Subject-matter of Patent.</i>
GUTZKOW, HERMANN - -	1642	29th May 1869	An improved method of obtaining anthracene out of asphaltos, that is to say, pitch produced from coal tar, and of preparing two coloring matters from the anthracene.
GUY, GEORGE FULLER - -	1648	29th May 1869	Sheathing for ships and vessels.
GWYNNE, WILLIAM HENRY -	1683	31st May 1869	Improvements in the process of making gas for illuminating, heating and other purposes, and in apparatus for the manufacture thereof. (Patented by Henry Holdrege.)
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HAARHAUS, WILLIAM ERNST -	3222	9th Nov. 1869	Tinning of metals. (Patented by Robert Aders.)
HAAR, EMIL - - - -	1890	18th June 1869	Pushing jacks or apparatus to facilitate moving railway carriages. (Communicated by Ezra Hutson.)
HABERKORN, JOHANN ADAM -	1305	28th April 1869	An improvement in sewing-machines.
HACKING, THOMAS - - -	1145	14th April 1869	Improvements in looms for weaving and in apparatus used in connection therewith. (Partly communicated by William Lancaster.)
HACKING, WILLIAM HENRY -	1145	14th April 1869	Improvements in looms for weaving and in apparatus used in connection therewith. (Partly communicated by William Lancaster.)
HACKWORTH, JOHN WHELEY -	3237	10th Nov. 1869	Slide valves for steam-engines.
HADLEY, JONAH - - - -	628	1st March 1869	Construction of decorticating apparatus.
HAIGH, WILLIAM BLACKETT -	2029	6th July 1869	Machinery or apparatus for cutting, sawing and boring wood.
HAIGH, WILLIAM BLACKETT -	3099	26th Oct. 1869	Circular saw benches.
HAIRS, GEORGE GERARD -	523	20th Feb. 1869	Improvements in burning and vaporizing combustible liquids to obtain light and heat, and in apparatus employed therein.
HALFORD, JOHN - - - -	362	5th Feb. 1869	Improvements in puddling furnaces used in the manufacture of iron, and in other reverberatory furnaces.
HALFORD, JOHN - - - -	2971	13th Oct. 1869	Improvements in puddling furnaces used in the manufacture of iron, and in other reverberatory furnaces.
HALL, ABRAHAM - - - -	3630	15th Dec. 1869	A new or improved reversible fabric and in the means of producing the same.
HALL, ANDREW - - - -	2329	3rd Aug. 1869	A new and useful improvement in mechanism for spinning wool or other fibrous matters. (Communicated by Robert London Walker.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HALL, CHARLES - - -	32	5th Jan. 1869	Distillation of hydrocarbon oils. (Patented by Amasa Mason.)
HALL, HENRY - - -	1284	26th April 1869	Obtaining motive-power and apparatus therefor.
HALL, JAMES - - -	636	2nd March 1869	Horse-shoes.
HALL, JOHN - - -	1436	11th May 1869	Fire-arms.
HALL, JOHN FIELDER - -	1537	19th May 1869	An improved method of spinning or twisting two or more ends of yarn and simultaneously twisting the same into one thread.
HALL, JOHN L. - - -	1719	3rd June 1869	Manufacture of crucibles and other refractory articles or vessels. (Patented by Walter Vaughan Morgan.)
HALL, NATHANIEL RICHARD -	1784	9th June 1869	Apparatus for weighing letters and other articles.
HALL, PETER - - -	2660	10th Sept. 1869	Apparatus for transmitting motive-power.
HALL, SYDNEY - - -	2195	20th July 1869	Apparatus for moulding artificial fuel, applicable also to the moulding of bricks or building blocks.
HALL, THOMAS - - -	2798	27th Sept. 1869	Improved means for effecting the removal or discharge of dye-wood from hanks or yarn.
HALL, WILLIAM SMITH - -	1682	31st May 1869	Mechanism for propelling and guiding vehicles and for driving machinery by muscular power. (Patented by William Robert Lake.)
HALLAS, DAVID - - -	1071	8th April 1869	Improved apparatus for regulating the supply and for purifying gas.
HALLAS, GEORGE - - -	1071	8th April 1869	Improved apparatus for regulating the supply and for purifying gas.
HALLIWELL, ALEXANDER B. -	1839	15th June 1869	Hold-backs for carriages. (Patented by John Halliwell.)
HALLIWELL, JOHN - - -	1839	15th June 1869	Hold-backs for carriages. (Communicated by John A. Mackinnon and Alexander B. Halliwell.)
HALPHEN, CHARLES JACOB -	2002	2nd July 1869	An improved combined travelling bag and chair. (Patented by William Robert Lake.)
HALPHEN, EMMANUEL [ADOLPHE.	2002	2nd July 1869	An improved combined travelling bag and chair. (Patented by William Robert Lake.)
HALPHEN, ERNEST - - -	2002	2nd July 1869	An improved combined travelling bag and chair. (Patented by William Robert Lake.)
HAMER, JAMES - - -	3624	15th Dec. 1869	Steam-engines.
HAMILTON, GILBERT - - -	3779	31st Dec. 1869	Construction of steam-boilers.
HAMILTON, JOHN - - -	847	20th March 1869	Apparatus for containing, treating, preserving, cooling, withdrawing and conveying fermentable and aerated beverages.
HAMILTON, JOHN - - -	3561	9th Dec. 1869	Collapsible casks or vessels for containing fermentable and aerated beverages.
HAMILTON, MILTON ALEX- [ANDER.	1398	6th May 1869	An improved refrigerator. (Patented by George Kent.)
HAMILTON, WILLIAM - - -	2346	5th Aug. 1869	Meters for measuring liquids and gases. (Patented by Benjamin Joseph Barnard Mills.)
HAMMER, GEORGE - - -	3485	1st Dec. 1869	Cork cutting machines.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HAMMOND, EDWIN - - -	2904	6th Oct. 1869	Breech-loading fire-arms.
HAMMOND, HENRY - - -	2904	6th Oct. 1869	Breech-loading fire-arms.
HAMMOND, HENRY ALLWORK	3328	18th Nov. 1869	An improved chimney cowl.
HAMMOND, HENRY WOOD- [CROFT.	171	19th Jan. 1869	Improvements in the mode of and in apparatus or mechanism for driving piles. (Communicated by Philip Syng Justice.)
HAMMOND, HENRY WOOD- [CROFT.	1781	9th June 1869	Improvements in hammers for forging metals and for other purposes, and in the mode of actuating the same and in the apparatus connected therewith. (Communicated by Philip Syng Justice.)
HAMON, AUGUSTIN HENRI -	3468	30th Nov. 1869	Improved apparatus for converting reciprocating motion into rotary motion. (Patented by Alfred Vincent Newton.)
HAMPSON, JAMES - - -	2704	16th Sept. 1869	An improvement in apparatus used in the manufacture of pipes from lead or other metal or alloy.
HAMPSON, JOHN - - -	638	2nd March 1869	Construction and working of temples and rollers for winding the cloth, and other rollers to be used in power looms for weaving.
HAMPSON, JOHN - - -	1022	5th April 1869	Looms for weaving.
HAMPTON, JOSEPH - - -	2426	13th Aug. 1869	Velocipedes.
HANCOCK, JAMES LAMB -	1654	29th May 1869	Apparatus for making hay and harvesting corn and seeds.
HANCOCK, JAMES LAMB -	1655	29th May 1869	Apparatus for clipping and trimming horses and other animals, and for shearing sheep.
HANCOCK, JAMES LAMB -	3655	17th Dec. 1869	Apparatus for crushing or breaking bones for domestic and other purposes.
HANCOX, THOMAS - - -	2385	10th Aug. 1869	Improved machinery or apparatus for rolling metallic axles for wheels, and for rolling guns, shafts or other circular articles in malleable iron or steel.
HAND, NOAH - - - -	1567	20th May 1869	Boat-detaching apparatus. (Patented by William Robert Lake.)
HANDYSIDE, JAMES BAIRD -	1454	12th May 1869	Wheels.
HANNA, HENRY - - - -	2317	2nd Aug. 1869	Improved machinery for the manufacture of artificial fuel.
HANNAFORD, GEORGE HENRY	3272	13th Nov. 1869	Apparatus for working, locking and controlling railway switches, points and signals.
HANNART, LOUIS - - -	24	5th Jan. 1869	Improvements in the manufacture of types and dies, and in the apparatus for such manufacture.
HANNART, LOUIS - - -	103	13th Jan. 1869	A new tool or mould for moulding or casting discs or wheels requiring to have letters, characters, numerals or other devices or designs formed around or about their circumferences, in metal or other materials.
HANNART, LOUIS - - -	925	27th March 1869	An improved muzzle for dogs and other quadrupeds.
HANRIAU, JULES GABRIEL -	3344	20th Nov. 1869	Means and apparatus for utilizing streams, subterranean and other springs, lakes, ponds and other surface waters as motive-power. (Patented by Charles Denton Abel.)
HANSEN, HANS PETER - -	430	11th Feb. 1869	Stoves.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HANSON, CHARLES - -	1621	26th May 1869	Means or apparatus for obtaining motive-power.
HANSON, DAVID - - -	758	11th March 1869	Apparatus for welding and flanging plates and tubes used in the manufacture of boilers and other constructions.
HANSON, RICHARD - - -	218	23rd Jan. 1869	Means used in steaming printed yarns.
HANSON, RICHARD - - -	1110	10th April 1869	Valves for regulating the discharge of steam, air or other elastic fluids.
HANSON, RICHARD - - -	1591	22nd May 1869	Improvements in steaming yarns and in apparatus employed therein, part of which improvements are also applicable for regulating the pressure of steam and other fluids.
HANTON, DAVID - - -	450	13th Feb. 1869	Ploughs.
HARA, CHARLES M. O' - -	2635	7th Sept. 1869	An improved mode of preventing the radiation of heat from steam-boilers. (Patented by Alfred Vincent Newton.)
HARBURG, HENRY - - -	593	26th Feb. 1869	Musical boxes.
HARCOURT, CHARLES JAMES -	2167	17th July 1869	Axle pulleys for suspending window sashes and for other like purposes.
HARDING, JOHN - - -	1863	17th June 1869	Improvements in mail or cash and other bags or portable receptacles, and in fastenings to be used for the same, and appliances for the working thereof.
HARDING, THOMAS RICHARDS	2810	27th Sept. 1869	Improvements in leather driving bands and in machinery employed in the manufacture thereof.
HARDING, THOMAS WALKER -	2810	27th Sept. 1869	Improvements in leather driving bands and in machinery employed in the manufacture thereof.
HARDINGHAM, GEORGE GAT- [TON MELHUISE.	2171	19th July 1869	Sewing-machines.
HARDMAN, GEORGE - - -	3277	13th Nov. 1869	Carding-engines.
HARDMAN, RICHARD - - -	3277	13th Nov. 1869	Carding-engines.
HARDY, CHARLES ATWOOD -	1865	17th June 1869	Improvements in picks, which improvements are also applicable to axes, adzes, rakes, hoes, shovels and other like instruments. (Patented by John Henry Johnson.)
HARDY, JAMES Mc - - -	2976	13th Oct. 1869	An improved drag applicable to waggons, omnibuses and other wheeled vehicles.
HARDY, JAMES M ^c - - -	3629	15th Dec. 1869	An improved drag or brake applicable to waggons, omnibuses, carriages and other wheeled vehicles.
HARDY, ROBERT M ^c - - -	1844	15th June 1869	An improved agricultural and garden implement.
HARDY, WILLIAM, the younger	3066	21st Oct. 1869	Improvements in obtaining and applying motive-power applicable to working sewing-machines and other useful purposes.
HARFIELD, WILLIAM HORATIO	774	13th March 1869	Improvements in capstans and capstan windlasses, chain controllers and stoppers, and in chain shackles.
HARGREAVES, JAMES - - -	2610	4th Sept. 1869	Extracting phosphoric acid and phosphorus from the tap cinder of puddling furnaces and iron refineries, and from other compounds of iron and phosphorus.

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ALPHABETICAL INDEX OF PATENTEEES

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HARGREAVES, JAMES - -	3167	1st Nov. 1869	Improvements in the treatment of pyrites and in obtaining products therefrom.
HARGREAVES, JAMES - -	3731	24th Dec. 1869	Improvements in the treatment of pyrites and in obtaining products therefrom.
HARGREAVES, STEPHEN -	645	3rd March 1869	Warping by warping mills.
HARGREAVES, WILLIAM -	3663	18th Dec. 1869	Certain improvements in steam-boilers.
HARINGTON, ALEXANDER [STUART.	1885	19th June 1869	An improved pouch for tobacco and other articles used by smokers.
HARLOW, ROBERT - - -	1503	17th May 1869	Hot water boilers used for heating purposes.
HARLOW, ROBERT - - -	2805	27th Sept. 1869	Valves or cocks.
HARMAN, HENRY WILLIAM -	2716	18th Sept. 1869	Steam boilers or generators.
HARMON, BYRON HORATIO -	2053	7th July 1869	An improved method of and apparatus for removing artificial coatings from metallic surfaces. (Patented by William Robert Lake.)
HARNDEN, SYLVESTER - -	1858	16th June 1869	An improved apparatus for ventilating and purifying rooms or apartments. (Patented by Bristow Hunt.)
HARPER, WILLIAM - - -	2787	25th Sept. 1869	Machinery or apparatus for suspending fabrics in drying stoves.
HARRILD, HORTON - - -	2817	28th Sept. 1869	An improved composition for the manufacture of printing rollers.
HARRILD, ROBERT - - -	2817	28th Sept. 1869	An improved composition for the manufacture of printing rollers.
HARRIS, ALFRED ELLIS - -	317	2nd Feb. 1869	An improved method of making plates or palates for artificial teeth.
HARRIS, GEORGE MAY - -	1908	22nd June 1869	An improved vice specially adapted for holding pieces of metal intended to be planed on planing machines.
HARRIS, GEORGE WASHINGTON	1683	31st May 1869	Improvements in the process of making gas for illuminating, heating and other purposes, and in apparatus for the manufacture thereof. (Patented by Henry Holdrege.)
HARRIS, HENRY LEWIS - -	120	15th Jan. 1869	Construction and manufacture of packing cases, boxes and trunks.
HARRIS, ISAAC BLUE - -	922	27th March 1869	Shoes for horses.
HARRIS, ISAAC BLUE - -	1739	5th June 1869	Shoes for horses.
HARRIS, WILLIAM - - -	3256	11th Nov. 1869	Locks and latches.
HARRIS, WILLIAM RANDAL -	590	25th Feb. 1869	Improvements in the manufacture of weaver's harness or healds and in the machinery used for that purpose.
HARRIS, WILLIAM WALLING- [TON.	950	30th March 1869	Velocipedes.
HARRISON, DAVID - - -	1946	26th June 1869	Improvements applicable to the permanent way and rolling stock of railways. (Patented by Alexander Clark.)
HARRISON, FREDERIC ARTHUR	3539	7th Dec. 1869	An improved buckle or fastening for braces, belts and other articles of wearing-apparel.
HARRISON, JOHN GEORGE -	2581	1st Sept. 1869	Axles for carriages.

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AND APPLICANTS FOR PATENTS OF INVENTION.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HARRISON, ROBERT - -	1788	9th June 1869	Improvements in machinery or apparatus for squaring or dressing roofing slates and counting and registering the same, and loading the slates on to wagons or trucks, part of which improvements is also applicable to sawing machines for wood.
HARRISON, SAMUEL - -	1177	16th April 1869	Improvements in apparatus and arrangement of same for ventilating, gaining access to and flushing street and other sewers and drains, also in purifying the noxious gases arising therefrom, parts of which improvements consist in gully stench traps.
HARRISON, THOMAS - -	377	6th Feb. 1869	Corn, seed and manure drills.
HARRISON, WILLIAM - -	891	24th March 1869	An improved sunshade applicable to hats and certain other head coverings. (Communicated by Paul Combet.)
HARRISSON, THOMAS HARNETT	742	11th March 1869	A self-acting back-wash chamber for water-closets.
HARRY, THOMAS HENRY -	2627	7th Sept. 1869	An improved wheel buddle for dressing or separating tin ores and ores of all metals, and ore which is held in suspension in water and earthy substances.
HART, HERBERT WILLIAM -	1301	27th April 1869	Construction of ovens for baking and cooking.
HART, JOHN - - - -	2016	3rd July 1869	Means of and apparatus for separating, distributing and utilizing sewage.
HART, JOHN MATTHIAS -	1399	6th May 1869	Improvements in the construction of safes or depositories for security, and in securing the doors of safes or depositories, strong rooms and such like places, also in fire-proofing the same, part of which improvements is also applicable to the construction of parts of locks.
HARTLEY, EDMUND - -	231	25th Jan. 1869	Looms for weaving.
HARTLEY, GREENWOOD -	714	9th March 1869	Looms for weaving.
HARTLEY, JAMES - - -	2980	13th Oct. 1869	Apparatus for registering billiards or other games.
HARTLEY, JOHN - - -	3333	19th Nov. 1869	Wrought-iron boilers for hot-water apparatus.
HARTLEY, WALTER NOEL -	2941	9th Oct. 1869	Whitening or bleaching yarns, fabrics and fibrous substances.
HARTMANN, JULES ALBERT -	2871	4th Oct. 1869	Process of engraving on metals.
HARVEY, SAMUEL - - -	2447	16th Aug. 1869	Apparatus for indicating signals between passengers and guards in railway trains.
HASCHKE, HENRY - - -	929	27th March 1869	Breech-loading fire-arms. (Communicated by Hubert Comblain and Leon Lambin.)
HASENCLEVER, ROBERT -	3769	30th Dec. 1869	An improved apparatus for roasting iron-pyrites. (Patented by William Robert Lake.)
HASKELL, EZRA - - -	1509	17th May 1869	Factory sliver cans. (Patented by William Edward Newton.)
HASTIE, JOHN - - -	2804	27th Sept. 1869	Improvements in applying heat and in obtaining motive-power.

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ALPHABETICAL INDEX OF PATENTERS

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HASWELL, GEORGE CRANSTON	1958	29th June 1869	Water directors for fire-engines, garden engines and hose, and for nozzles for force pumps.
HATCHMAN, WILLIAM - -	1527	18th May 1869	Umbrellas.
HATTERSLEY, RICHARD LONG- [DEN.	2960	12th Oct. 1869	Looms for weaving.
HATTERSLEY, THOMAS - -	461	15th Feb. 1869	Spindles and flyers used in the spinning and preparing of flax, tow, hemp, jute, worsted, wool, cotton, silk and other fibrous substances.
HATTERSLEY, THOMAS - -	3227	9th Nov. 1869	Spindles and flyers used in the spinning and preparing of flax, tow, hemp, jute, worsted, wool, cotton, silk and other fibrous substances.
HAUGHTON, HENRY - -	1104	10th April 1869	Improved apparatus for facilitating the consumption of smoke.
HAUWORTH, JOHN - - -	1670	31st May 1869	Certain improvements in furnaces for steam-boilers and other purposes.
HAUXWELL, GEORGE - -	1741	5th June 1869	Apparatus for decorticating and cleaning grain and seed.
HAWES, ARTHUR BRISCOE -	1416	10th May 1869	Improvements in bottles and flasks, also applicable to jars and other vessels.
HAWES, EDWARD WILLIAM -	379	8th Feb. 1869	Constructing buoys and other floating sea marks.
HAWES, EDWARD WILLIAM -	2357	7th Aug. 1869	Construction of buoys and other floating sea marks.
HAWKINGS, FREDERICK - -	3371	22nd Nov. 1869	Fire-escapes.
HAWKSLEY, GEORGE - - -	276	29th Jan. 1869	Manufacture of ventilators and chimney pots.
HAWKSLEY, GEORGE - - -	282	29th Jan. 1869	Improvements in pumps and in apparatus connected therewith.
HAWKSLEY, GEORGE WILLIAM	2922	8th Oct. 1869	Construction of steam-boilers.
HAWLEY, JOHN PRENTIS -	3181	2nd Nov. 1869	Apparatus for controlling the flow of water from constant supply pipes.
HAWORTH, GILES - - -	1104	10th April 1869	Improved apparatus for facilitating the consumption of smoke.
HAWTHORN, THOMAS - - -	2761	23rd Sept. 1869	Locomotive engines and vehicles intended to run on railways and tramways.
HAWXHURST, GEORGE - - -	1291	26th April 1869	An improved method of and means for preventing the corrosion of steam-boilers.
HAY, RANDAL DUKE - - -	1427	10th May 1869	Gun locks. (Patented by William Edward Newton.)
HAYCOCK, WILLIAM - - -	454	15th Feb. 1869.	Horseshoes.
HAYCRAFT, ALFRED - - -	829	18th March 1869	Stationary, locomotive and marine steam-engines.
HAYCRAFT, SAMUEL - - -	829	18th March 1869	Stationary, locomotive and marine steam-engines.
HAYCRAFT, SYDNEY - - -	829	18th March 1869	Stationary, locomotive and marine steam-engines.
HAYFORD, IRA - - -	3342	20th Nov. 1869	Certain improvements in the mode of laying or constructing wooden pavements for streets, etc., as well as a new and useful process for preparing wood for pavements.
HAYHURST, WILLIAM HENRY	438	12th Feb. 1869	Looms for weaving.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HAYS, JOSEPH JUDGE - -	29	5th Jan. 1869	Machinery or apparatus for obtaining and drying peat and carbonizing the same.
HAYWARD, JOSEPH - -	2234	22nd July 1869	Manufacture of combs.
HAZELDINE, FREDERICK -	2885	5th Oct. 1869	An improved corkscrew adapted for gaseous and aerated liquids.
HAZEN, ALONZO MORRIS -	1373	4th May 1869	Railway carriage wheels. (Patented by Alfred Vincent Newton.)
HAZLEHURST, GEORGE [STEWART.]	2335	4th Aug. 1869	Mechanism or apparatus to be employed as a medium of communication between passengers, guard and engine driver on railway trains.
HEAD, CHARLES ARTHUR -	3157	30th Oct. 1869	Apparatus for raising and lowering weights.
HEADRIDGE, PETER - -	1101	10th April 1869	Improvements in dentistry for expanding the upper and lower maxillary.
HEAL, JOHN - - - -	1266	24th April 1869	Harrows for working or cultivating the soil.
HEALD, JOSEPH - - - -	200	22nd Jan. 1869	Looms for weaving.
HEALD, WILLIAM HESKETH -	225	25th Jan. 1869	Construction of mules for spinning.
HEALD, WILLIAM HESKETH -	899	24th March 1869	Mules for spinning.
HEALEY, CHARLES EDWARD [HELY CHADWYCK.]	1063	7th April 1869	An improved method of and apparatus for cleaning breech-loading fire-arms.
HEAP, JOSEPH - - - -	3634	16th Dec. 1869	Improvements applicable to earth closets or commodes and urinals.
HEAP, JOSHUA - - - -	1	1st Jan. 1869	A new system of gearing which is applicable to lathes, planing, drilling, shaping and screwing machines, and also applicable in all cases where an extra purchase or concentration of mechanical power is required.
HEATH, SIMEON - - - -	3221	9th Nov. 1869	An improved machine or apparatus for clipping horses.
HEATHFIELD, RICHARD - -	1458	12th May 1869	Coating sheets of metal with other metal.
HEATHORN, ALFRED - - -	2867	2nd Oct. 1869	Preparation of yeast or barm.
HÉBERT, LOUIS PIERRE - -	272	28th Jan. 1869	An improved press for stamping letters, books and documents with ink or other coloring matter.
HEBSON, DOUGLAS - - -	1971	30th June 1869	Steam-engines.
HECKNER, FRITZ - - - -	1758	7th June 1869	An improved arrangement of endless sawing machinery.
HEDLEY, FRANCIS - - - -	1485	14th May 1869	Horse-shoes.
HELBIG, WILLIAM - - - -	3769	30th Dec. 1869	An improved apparatus for roasting iron-pyrites. (Patented by William Robert Lake.)
HELLIWELL, JAMES - - -	3765	30th Dec. 1869	Construction of bobbins used in machines for spinning, doubling and twisting.
HELLIWELL, MITCHELL - -	3765	30th Dec. 1869	Construction of bobbins used in machines for spinning, doubling and twisting.
HELLIWELL, THOMPSON - -	3765	30th Dec. 1869	Construction of bobbins used in machines for spinning, doubling and twisting.
HELLIWELL, WILLIAM - - -	3765	30th Dec. 1869	Construction of bobbins used in machines for spinning, doubling and twisting.
HELWIG, ARTHUR - - - -	1036	6th April 1869	An improved stitching and button-hole sewing-machine.
HEMINGWAY, ABRAHAM - -	1656	29th May 1869	Slide valves.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HENCHMAN, HUMPHREY -	2502	23rd Aug. 1869	Construction of windmills.
HENDERSON, ARTHUR CHARLES	3476	1st Dec. 1869	Apparatus for shearing or clipping animals, the said apparatus being also applicable to shaving skins. (Communicated by Thomas Piller.)
HENDERSON, CONSTANTINE -	2272	27th July 1869	Girders used in the construction of arches or otherwise combined with iron, timber, stone or brickwork.
HENDERSON, JAMES - -	358	5th Feb. 1869	Surface condensers and refrigerators.
HENDERSON, JAMES - -	2097	12th July 1869	Surface condensers and refrigerators.
HENDERSON, JAMES - -	3284	13th Nov. 1869	Improvements in treating certain ores and in obtaining products therefrom.
HENDERSON, JOHN - -	785	15th March 1869	Construction of water cocks or valves.
HENDERSON, JOSEPH - -	66	8th Jan. 1869	Improvements in the manufacture of iron and steel; and in furnaces to be used in such manufacture.
HENDERSON, JOSEPH - -	724	9th March 1869	Improvements in the manufacture of iron and steel and in furnaces to be used in such manufacture.
HENDERSON, WILLIAM - -	1410	8th May 1869	Apparatus for finishing woven fabrics.
HENDRY, ALEXANDER - -	2698	15th Sept. 1869	Steam and caloric engines. (Patented by Alfred Vincent Newton.)
HENDSEN, SAMUEL ROBERT -	915	25th March 1869	Machinery for pressing oil, tobacco, cotton and other materials. (Patented by William Robert Lake.)
HENGST, CHARLES - - -	2870	4th Oct. 1869	Certain improvements in the manufacture and cementation or welding of steel and iron, iron and iron, and steel and steel together, and in adapting such improvements to various useful purposes.
HENLEY, GEORGE - - -	2603	3rd Sept. 1869	Dial or needle and alphabetical telegraphs, relays and recording instruments.
HENLEY, WILLIAM THOMAS -	3637	16th Dec. 1869	Protecting telegraph wires and cables.
HENNAMAN, JOHN THOMAS -	3144	29th Oct. 1869	Machinery for manufacturing cigars. (Patented by Benjamin Joseph Bernard Mills.)
HENNE, JEAN BAPTISTE -	3452	29th Nov. 1869	Improvements in obtaining motive-power and in apparatus employed therein. (Patented by John Clayton Newburn.)
HENNELL, REGINALD - -	3370	22nd Nov. 1869	Improvements in the construction of pavements for streets, bridges and other places, and in the means of taking up such pavements with facility.
HENRION, LEOPOLD - -	2665	11th Sept. 1869	An improved mode of and arrangements for promoting combustion in fire-places and furnaces.
HENRY, ALEXANDER - -	88	12th Jan. 1869	Fire-arms and ammunition.
HENRY, ALEXANDER - -	511	19th Feb. 1869	Breech-loading fire-arms.
HENRY, ALEXANDER - -	1448	11th May 1869	Breech-loading fire-arms.
HENRY, BENJAMIN TYLER -	3462	30th Nov. 1869	Improvements in the manufacture of elliptic springs and in apparatus employed therein. (Patented by Edward Thomas Hughes.)
HENRY, GEORGES FELIX -	1483	14th May 1869	An improvement in liquids for the lubrication of sheep's or other wool, or other animal, textile, fibrous materials.

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AND APPLICANTS FOR PATENTS OF INVENTION.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HENRY, MICHAEL - - -	10	1st Jan. 1869	Machinery or apparatus for combing fibrous materials. (Communicated by Joseph Imbs.)
HENRY, MICHAEL - - -	151	16th Jan. 1869	Moulding metal articles. (Communicated by Maximilien Joseph Magniant and Antoine Eugene Journault.)
HENRY, MICHAEL - - -	1224	21st April 1869	An improved mode of obtaining pyrophosphate of lime. (Communicated by Ernest Deligny.)
HENRY, MICHAEL - - -	1912	22nd June 1869	Mode of and apparatus for typographical composing and printing. (Communicated by Louis Henri Fontaine.)
HENRY, MICHAEL - - -	2318	2nd Aug. 1869	Apparatus for ventilating mines, drains and other places, and extracting noxious gases, smoke and vapours therefrom, such apparatus being also applicable for communicating sound. (Communicated by Jean Jacques Danduran.)
HENRY, MICHAEL - - -	3043	19th Oct. 1869	Improvements in the construction of bridges and in apparatus for the purpose. (Communicated by Thomas Charles Boutet.)
HENRY, MICHAEL - - -	3399	24th Nov. 1869	Apparatus for moving or transporting railway carriages and other heavy bodies from place to place. (Communicated by Hermann Müller.)
HENRY, MICHAEL - - -	3679	20th Dec. 1869	Mode of and apparatus for typographical composing and printing. (Communicated by Louis Henri Fontaine.)
HEPPLE, WILLIAM - - -	3611	14th Dec. 1869	Furnace bars and furnaces.
HERBERT, ABRAHAM BURBERRY	3337	19th Nov. 1869	Pumps.
HERBERT, HENRY - - -	990	1st April 1869	Hats. (Patented by Thomas Higgins.)
HERBERT, THOMAS - - -	1564	20th May 1869	Means for conducting electricity for communicating or transmitting signals and alarms.
HERBERT, THOMAS - - -	3245	11th Nov. 1869	Means or apparatus for signalling between various parts of a railway train.
HERBST, ALEXANDER - - -	1511	17th May 1869	Apparatus for drying sugar. (Patented by William Robert Lake.)
HERNULEWICZ, EDWARD -	2760	22nd Sept. 1869	An improved method of securing the intermediate uprights of all kinds of metal and wood fencing.
HERRING, WILLIAM ANTHONY	604	26th Feb. 1869	Pumps.
HERRIOTT, ROBERT HILL -	2557	28th Aug. 1869	Improvements in communicating between passengers and the guard and driver of railway trains, and in the machinery or apparatus employed therein.
HERRMANN, BERNHARDT [GUSTAV.]	3761	29th Dec. 1869	Separation of metals.
HESLOP, WILLIAM - - -	2766	30th Dec. 1869	Manufacture of tyres and hoops for railway wheels and other purposes.
HESLOP, WILLIAM - - -	3639	16th Dec. 1869	Manufacture of wheels and pulleys.
HETHERINGTON, JOHN MUIR -	1099	10th April 1869	Machinery for combing cotton.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HETHERINGTON, THOMAS RID- [LEY.	3353	20th Nov. 1869	Machinery for preparing, spinning and doubling cotton and other fibrous materials.
HETHERINGTON, WILLIAM [ISAAC.	3585	11th Dec. 1869	Motive-power engines specially adapted for propelling ships but which may be employed for other purposes.
HEUER, FRIEDRICH HEINRICH [WILHELM.	2614	4th Sept. 1869	Velocipedes. (Communicated by John Mickelthwait and Bernhard Röber.)
HEUREUSE, RUDOLPH D' -	230	25th Jan. 1869	An improvement in fermenting substances and germinating grain and seeds. (Patented by Alfred Vincent Newton.)
HEUREUSE, RUDOLPH D' -	751	11th March 1869	An improved attachment for adjusting cords for hanging pictures, mirrors, glasses and for other analogous purposes. (Patented by William Edward Newton.)
HEWES, WILLIAM - - -	2908	6th Oct. 1869	Washing machines. (Patented by William Henry Horsley.)
HEWETT, EDWARD - - -	518	19th Feb. 1869	Cowls for chimneys and shafts.
HEWETT, WILLIAM HENRY -	2776	24th Sept. 1869	Producing characters, inscriptions, devices and designs on metal surfaces.
HEWITT, CHARLES - - -	1256	23rd April 1869	Puddling iron. (Patented by Henry Edward Newton.)
HEWITT, HEZEKIAH - - -	1407	7th May 1869	Metallic pens, penholders and metallic boxes for holding pens and other small articles.
HEYES, GEORGE - - -	1308	28th April 1869	Machinery for winding yarns or threads on bobbins.
HEYMAN, HERRMAN SALOMON	2289	29th July 1869	A process by which the waste of flax and hemp is converted into substitutes for cotton, wool and flax. (Communicated by Theodor Heyman.)
HEYMAN, THEODOR - - -	2289	29th July 1869	A process by which the waste of flax and hemp is converted into substitutes for cotton, wool and flax. (Patented by Herrman Salomon Heyman.)
HEYS, JAMES - - - -	1935	25th June 1869	Certain improvements applicable to carding-engines.
HEYWOOD, ABEL, the younger	1438	11th May 1869	Velocipedes.
HEYWOOD, JAMES - - -	813	17th March 1869	Improved tapes for venetian window-blinds, for ribbons, hatbands and similar articles, and for improved looms and apparatus for weaving them.
HEYWOOD, JOSEPH CONVERSE	3219	8th Nov. 1869	Weighing machines or scales. (Communicated by Michael Kennedy.)
HEYWOOD, RUEBEN WALTER	912	25th March 1869	Machinery for tilling land. (Patented by William Charles Dreyer.)
HEYWOOD, WILLIAM - - -	3056	20th Oct. 1869	Carriages.
HEYWORTH, ROBERT - - -	1164	15th April 1869	Improvements in waterclosets and in self-acting apparatus connected therewith, part of which improvements is also applicable to urinals.
HEYWORTH, ROBERT - - -	1973	30th June 1869	Improvements in water-closets, wash basins and urinals, and in self-acting apparatus for the same.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HIBBARD, WILLIAM CHARLTON	595	26th Feb. 1869	An improved method of constructing ships and other vessels for carrying liquid cargoes. (Patented by William Robert Lake.)
HIBBERT, GEORGE - -	572	24th Feb. 1869	The use of one or more steam jets, with or without water, for obtaining vacuum power applicable to steam and other motive engines, also to other purposes in paper, chemical, iron, steel and other works and manufactures.
HIBBERT, GEORGE - -	642	3rd March 1869	A circulating heat motive-power engine.
HICKES, RICHARD LOCKYER -	2747	21st Sept. 1869	Cartridges.
HICKES, RICHARD LOCKYER -	2853	1st Oct. 1869	Construction, arrangement and fitting of breech-loading fire-arms.
HICKES, RICHARD LOCKYER -	2935	9th Oct. 1869	Modes or methods of applying electricity to obtain motive-power and for other useful purposes.
HICKS, JAMES JOSEPH -	872	22nd March 1869	Stoppers for perfume and other bottles.
HIDDEN, EDWARD SEYMOUR -	3620	15th Dec. 1869	Apparatus for making and breaking electromagnetic circuits, chiefly designed for governing short or local circuits for operating signals on long telegraphic lines. (Patented by William Robert Lake.)
HIGGINBOTTOM, JOHN - -	3279	13th Nov. 1869	Certain improvements in the manufacture of paper-hangings.
HIGGINBOTTOM, JOHN - -	3487	2nd Dec. 1869	Bowls or rollers used in calendering and other pressing or squeezing machinery.
HIGGINS, HENRY - - -	2197	20th July 1869	Machinery or apparatus for preparing, spinning and doubling cotton and other fibrous materials.
HIGGINS, THOMAS - - -	990	1st April 1869	Hats. (Communicated by Henry Herbert.)
HIGHTON, HENRY, M.A. -	1383	5th May 1869	Improvements in making, hardening and preserving artificial stone, and in preserving the surfaces of walls and other surfaces.
HIGNETT, JOHN - - -	2961	12th Oct. 1869	Machinery for twisting or spinning tobacco.
HILL, CHARLES GREY - -	366	5th Feb. 1869	Manufacture of rosettes and trimmings.
HILL, CHARLES GREY - -	2696	15th Sept. 1869	Manufacture of ruches and other trimmings.
HILL, EDWARD JACOB - -	459	15th Feb. 1869	An improved signaling apparatus used in hand signal lamps.
HILL, EDWARD JACOB - -	2421	13th Aug. 1869	An improved signalling apparatus used in hand signal lamps.
HILL, EDWIN EVERED - -	3181	2nd Nov. 1869	Apparatus for controlling the flow of water from constant supply pipes.
HILL, ENOCH - - -	2751	22nd Sept. 1869	Slide valves.
HILL, JAMES - - -	2960	12th Oct. 1869	Looms for weaving.
HILL, JAMES MADISON - -	1427	10th May 1869	Gun locks. (Patented by William Edward Newton.)
HILL, JOHN - - -	1806	12th June 1869	Furnaces for steam-boilers and for other purposes.
HILL, RICHARD HARRIS -	2637	8th Sept. 1869	Crossings for railways.
HILL, SAMUEL ANSON -	3048	19th Oct. 1869	Improvements in heating and in apparatus employed therein. (Patented by John Henry Johnson.)
HILLARY, MARK - - -	1241	22nd April 1869	Harrows or drags.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HILLS, AMARIAH MILLER -	37	5th Jan. 1869	Lawn mowers. (Patented by Aaron White Cook Williams.)
HILLS, FRANK CLARKE -	444	12th Feb. 1869	Improvements in the furnaces of gas retorts, and in means and apparatus for effecting the combustion of fuel in the said furnaces.
HILTON, JOHN - - -	2920	8th Oct. 1869	Casting socket and flanged pipes.
HILTON, WILLIAM - - -	408	10th Feb. 1869	Looms for weaving.
HINDE, GEORGE JAMES -	598	26th Feb. 1869	Coating iron or steel with copper or brass or other alloys of copper.
HINDE, THOMAS CALLENDER -	422	10th Feb. 1869	Improvements in the production of heat for heating the boilers of marine steam-engines, and in the furnaces and apparatus used for that purpose.
HINDE, THOMAS CALLENDER -	597	26th Feb. 1869	Improvements in furnaces and in the combustion of fuel for melting steel and for other purposes where high temperatures are required.
HINDLE, JOHN - - -	714	9th March 1869	Looms for weaving.
HINDLE, THOMAS - - -	2921	8th Oct. 1869	Improvements in the construction of concrete and cement buildings, structures and articles, and in apparatus to be employed therein.
HINE, GEORGE THOMAS AR- [ROWSMITH.	424	10th Feb. 1869	Means or apparatus for communication between the passengers, guards and drivers of railway trains.
HINKEL, ERNST PHILIPP -	406	16th Feb. 1869	An improved fastening for purses, pocket books, belts and other articles. (Patented by Heinrich Posen.)
HINKLEY, JONAS - - -	2639	8th Sept. 1869	An improved knitting machine. (Patented by Henry Bernoulli Barlow.)
HINTON, GEORGE - - -	2845	30th Sept. 1869	Obtaining and applying power by means of liquids, and machinery or apparatus connected therewith.
HIRST, JAMES - - -	1928	24th June 1869	Certain fabrics technically known as "paddinge."
HITCHEN, DAVID - - -	1504	17th May 1869	Looms for weaving.
HOARE, DEANE JOHN - -	1015	3rd April 1869	Atmospheric railways.
HOARE, GEORGE HENRY -	1607	25th May 1869	Velocipedes.
HOCHAPFEL, FRÈRES - -	2405	11th Aug. 1869	Pipes for smoking tobacco. (Patented by George White.)
HODGE, PAUL RAPSEY - -	1219	21st April 1869	Improvements in the manufacture of cloth or compound fabrics or artificial leather, and in the application of such to certain purposes.
HODGE, PAUL RAPSEY - -	2813	2nd Aug. 1869	Certain improvements in the manufacture of luminous and heating gas from hydrocarbonaceous fluids, and in the methods of using and applying such gas for illuminating and heating purposes.
HODGE, PAUL RAPSEY - -	2870	4th Oct. 1869	Certain improvements in the manufacture and cementation or welding of steel and iron, iron and iron, and steel and steel together, and in adapting such improvements to various useful purposes.
HODGES, RICHARD EDWARD -	2636	8th Sept. 1869	Keyhole guides.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HODGES, SAMUEL HORATIO -	1355	3rd May 1869	Construction of apparatus for the manufacture of heels for boots and shoes.
HODGKIN, JOHN ELIOT - -	1094	10th April 1869	Machinery for scutching or cleaning flax or other vegetable fibres.
HODGKIN, JOHN ELIOT - -	2516	24th Aug. 1869	Machinery for breaking the woody parts of flax, straw and other similar fibrous plants, and for scutching or removing such parts therefrom.
HODGSON, GEORGE - - -	926	27th March 1869	Looms for weaving.
HODGSON, JOSEPH RAY - -	110	14th Jan. 1869	Life buoys, boats or floating apparatus to be employed for rescuing persons in case of shipwreck or disaster at sea.
HODGSON, NATHAN - - -	3027	18th Oct. 1869	A motive-power engine.
HODGSON, THOMAS - - -	1794	10th June 1869	Manufacture of wire cloth or gauze used in the manufacture of paper and other similar purposes.
HOE, RICHARD MARCH - -	1762	7th June 1869	Improved apparatus for folding printed sheets of paper. (Patented by William Edward Newton.)
HOE, RICHARD MARCH - -	3582	11th Dec. 1869	Improved apparatus for folding printed sheets of paper, and for cutting and folding printed sheets of paper as they issue from the printing machine. (Patented by William Edward Newton.)
HOELSCHER, CHARLES LUIS- [TOPHE AUGUSTE.	269	28th Jan. 1869	A musical chair or seat.
HOEY, THOMAS - - -	3101	26th Oct. 1869	Improvements in fireplaces for dwellings, and in arrangements in connection therewith to promote ventilation.
HOFER, JOHN CHRISTIAN -	656	4th March 1869	An improved process for casting chain. (Patented by Edward Thomas Hughes.)
HOBACH, WILLIAM - - -	544	22nd Feb. 1869	Heating apparatus for locomotive engines. (Patented by William Robert Lake.)
HOHMANN, FRIEDRICH - -	1751	5th June 1869	Sewing-machines.
HOLBROOKE, JOHN G. - -	538	20th Feb. 1869	An improved floating velocipede. (Patented by John Edward Lucas.)
HOLBROOKE, JOHN GEORGE -	980	31st March 1869	Improved paper pulp. (Patented by John Benton Gridley.)
HOLCROFT, GEORGE - - -	985	1st April 1869	Improvements in and applicable to steam-engines.
HOLDING, JOSEPH - - -	74	11th Jan. 1869	"Temples" employed on looms for weaving.
HOLDING, JOSEPH - - -	675	6th March 1869	Looms for weaving.
HOLDING, JOSEPH - - -	1234	22nd April 1869	Loom for weaving.
HOLDING, JOSEPH - - -	2260	26th July 1869	Looms for weaving.
HOLDING, JOSEPH - - -	2689	15th Sept. 1869	Looms for weaving.
HOLDING, JOSEPH - - -	3112	27th Oct. 1869	Looms for weaving.
HOLDREGE, HENRY - - -	1683	31st May 1869	Improvements in the process of making gas for illuminating, heating and other purposes, and in apparatus for the manufacture thereof. (Partly communicated by William Henry Gwynne and George Washington Harris.)
HOLDSWORTH, JOHN - - -	2556	28th Aug. 1869	Apparatus for loading or discharging grain, coals, ballast or other materials.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HOLLINRAKE, JOHN - -	1795	10th June 1869	Apparatus for the prevention of smoke in furnaces.
HOLLOWAY, WILLIAM - -	1217	21st April 1869	Apparatus for the manufacture of beverages from cocoa nibs, cocoa powder, paste or other similar substances.
HOLMAN, STEPHEN - -	1125	13th April 1869	Improvements in velocipedes, parts of which improvements are also applicable to lifts, cranes and other revolving machines.
HOLMES, ARTHUR - - -	2902	6th Oct. 1869	Axletrees for carriages and other vehicles.
HOLMES, FREDERICK - -	851	20th March 1869	Pulley arrangements applicable to blind cords and other purposes.
HOLMES, FREDERICK HALE -	1744	5th June 1869	Electro-magnetic machines.
HOLMES, HERBERT - -	2902	6th Oct. 1869	Axletrees for carriages and other vehicles.
HOLMES, JOHN - - -	448	13th Feb. 1869	An improved sash holder by means of which the sash may be held in any required position without the aid of sash lines, weights or pulleys, or such like contrivances.
HOLMES, JOSEPH ELLICOTT -	2191	20th July 1869	An improved mode of attaching or securing the free ends of wire and other ropes. (Communicated by Charles George Lundborg.)
HOLMES, JOSEPH ELLICOTT -	2390	10th Aug. 1869	Cutting and dressing stone.
HOLMES, SAMUEL - - -	1883	19th June 1869	Binocular and stereoscopic microscopes.
HOLROYD, JOHN - - -	3012	15th Oct. 1869	Hydraulic apparatus for raising and forcing water.
HOLROYD, SAMUEL - -	565	23rd Feb. 1869	Recovery of substances used in the purification of gas for illumination, and of waste products arising therefrom.
HOLT, CHARLES HERBERT -	3276	13th Nov. 1869	Improvements in apparatus for obtaining blast in smelting and other furnaces, which improvements are also applicable in injecting air for other purposes.
HOLT, EDWARD - - -	3741	24th Dec. 1869	Steam pumping engines.
HOLT, GEORGE HENRY JOSEPH	59	8th Jan. 1869	An improved method of exhibiting "cartes de visite" or other portraits or pictures.
HOLT, THOMAS - - -	1330	30th April 1869	Construction of steam-engines.
HOLT, THOMAS - - -	2186	20th July 1869	Apparatus for supplying and distributing disinfectants to closets and similar purposes.
HOMERSHAM, WILLIAM COL- [LETT.	3618	15th Dec. 1869	Improvements in pipes and conduits and in the joints thereof.
HONEGGER, ALFRED HENRY -	629	1st March 1869	A new and improved portable copying press or machine.
HONEYMAN, GEORGE, WAL- [LACE.	3617	14th Dec. 1869	An improved preparation for the removal and prevention of incrustation in steam-boilers.
HOOD, THOMAS - - -	288	30th Jan. 1869	Apparatus for driving sewing-machines by electro-magnetism.
HOOK, CHARLES - - -	2165	17th July 1869	Velocipedes.
HOOPER, JAMES DRUMMOND -	1086	9th April 1869	Improvements in the construction of vehicles, and in the means of propelling the same.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HOOPER, RICHARD BENNETT -	1039	6th April 1869	Improvements in the method of fastening and applying wood sheathing to the bottoms and sides of iron and other ships or navigable vessels, for the purpose of attaching copper, yellow metal, zinc or other sheathing thereto, parts of which improvements consist in a particular form of rivet or bolt connected therewith.
HOOPER, THEODORE - -	1539	19th May 1869	An improved process for obtaining gelatine and other products from animal substances. (Patented by William Robert Lake.)
HOOPER, WILLIAM JOHN -	1539	19th May 1869	An improved process for obtaining gelatine and other products from animal substances. (Patented by William Robert Lake.)
HOOPER, WILLIAM WILLIAMS	1086	9th April 1869	Improvements in the construction of vehicles and in the means of propelling the same.
HOPE, WILLIAM PAUL - -	945	29th March 1869	Cement and other kilns.
HOPKINS, SIDNEY WRIGHT -	3604	13th Dec. 1869	An improvement in the manufacture of iron and steel. (Patented by Robert John Carpenter.)
HOPKINSON, JOHN - - -	1713	3rd June 1869	Manufacture of artificial fuel.
HOPKINSON, JOHN ADDY -	977	31st March 1869	Direct-acting steam-engine indicators.
HOPKINSON, JOSEPH, junior -	977	31st March 1869	Direct-acting steam-engine indicators.
HOPPE, ROBERT FERDINAND -	1425	10th May 1869	Improvements applicable to musical boxes, albums and other similar articles. (Communicated by Carl Heinrich Schwarz.)
HOPSON, ORIN LEWIS - -	3115	27th Oct. 1869	New or improved machinery or apparatus for reducing the diameter of wire or rods for wire drawing and for other like purposes. (Communicated by Douglas F. Maltby.)
HORLICK, JOSEPH ALEXANDER	2118	14th July 1869	Improvements in the construction of pianoforte hammers. (Communicated by C. W. Brewer.)
HORLICK, JOSEPH ALEXANDER	2119	14th July 1869	Construction of pianoforte bridges. (Communicated by C. W. Brewer.)
HORNSBY, RICHARD - -	1851	16th June 1869	Improvements in reaping and mowing machines, and in apparatus for sharpening the knives of such machines.
HORNSBY, RICHARD - -	1852	16th June 1869	Hay making and raking machines.
HORNSBY, RICHARD - -	3471	30th Nov. 1869	Improvements in reaping and mowing machines, and in apparatus for sharpening the knives of such machines.
HORSFALL, HENRY - -	1670	31st May 1869	Certain improvements in furnaces for steam-boilers and other purposes.
HORSFALL, WILLIAM - -	2882	5th Oct. 1869	Machinery for forging bolts, screws and spikes.
HORSFIELD, JAMES WOOD -	209	22nd Jan. 1869	Steam-boilers.
HORSFIELD, JOSEPH WOOD -	209	22nd Jan. 1869	Steam-boilers.
HORSLEY, JOHN - - -	886	23rd March 1869	Protecting nitro-glycerine for conveyance and storage.
HORSLEY, JOHN - - -	1193	19th April 1869	Manufacture of blasting powder or explosive compounds.

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ALPHABETICAL INDEX OF PATENTEEES

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HORSLEY, WILLIAM HENRY -	2908	6th Oct. 1869	Washing-machines. (Communicated by William Hewes.)
HORSNAILL, HENRY - -	217	23rd Jan. 1869	Improvements in dressing millstones and in apparatus to be used therefor.
HORTON, JOSHUA - - -	3018	16th Oct. 1869	Castors for furniture.
HORTON, THOMAS ROGERS -	3253	11th Nov. 1869	Steam-engines and boilers.
HORTON, WILLIAM - - -	2840	30th Sept. 1869	Steam-boilers.
HORTON, WILLIAM JOHN -	435	12th Feb. 1869	Certain improvements in railway chairs.
HOSACK, WILLIAM - - -	2144	16th July 1869	Improvements in evaporating liquids and in the means or apparatus employed therefor.
HOSACK, WILLIAM - - -	2145	16th July 1869	Improved ship or vessel specially applicable for rapid transit on water.
HOSACK, WILLIAM - - -	2316	2nd Aug. 1869	Mills for extracting saccharine juice from sugar cane.
HOTCHKISS, BURKLEY BENJA- [MIN.]	624	1st March 1869	Improvements in metallic cartridges and in the methods of manufacturing the same. (Patented by Alexander Horace Brandon.)
HOTCHKISS, BURKLEY BENJA- [MIN.]	2257	24th July 1869	Improvements in metallic cartridges, their primers, and in the methods of manufacturing the same. (Patented by David Hunter Brandon.)
HOUDAILLE, VICTOR AMEDÉE	470	16th Feb. 1869	Metallic bungs for pressure vessels or vats specially applicable to brewers.
HOUEL, JULES CÉSAR - -	361	5th Feb. 1869	Mounting and working ordnance. (Patented by John Henry Johnson.)
HOULT, CHARLES - - -	311	2nd Feb. 1869	Screens or shields for closing or partially closing or covering domestic and other like fire-place openings, when not in use for heating purposes.
HOUSE, HENRY ALONZO -	946	30th March 1869	Sewing-machines. (Patented by George Tomlinson Bousfield.)
HOUSE, HENRY A. - - -	2813	27th Sept. 1869	Improvements in knitting machines and in the production of selvages thereby. (Patented by Frank Armstrong.)
HOUSE, HENRY A. - - -	3201	4th Nov. 1869	Sewing-machines. (Patented by Frank Armstrong.)
HOUSE, JAMES ALFORD -	946	30th March 1869	Sewing-machines. (Patented by George Tomlinson Bousfield.)
HOUSE, MARK WIGGENS -	1215	20th April 1869	Lamps. (Patented by William Robert Lake.)
HOUZÉ, HENRI - - -	3662	18th Dec. 1869	An improved system of pessary. (Patented by William Edward Gedge.)
HOVER, HENRY F. - - -	2089	10th July 1869	An improved sofa-bedstead. (Patented by William Robert Lake.)
HOWARD, HENRY - - -	243	26th Jan. 1869	Ventilating apparatus. (Patented by William Robert Lake.)
HOWARD, JAMES - - -	339	3rd Feb. 1869	Construction of turn-wrest ploughs.
HOWARD, JAMES - - -	1956	28th June 1869	Horse rakes.
HOWARD, JAMES - - -	3060	20th Oct. 1869	Construction of steam-boilers.
HOWARD, JAMES - - -	3437	27th Nov. 1869	Apparatus for cutting standing crops and collecting the same when cut.
HOWARD, JAMES - - -	3770	30th Dec. 1869	Steam-boilers.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HOWARD-KEELING, HERBERT	2888	5th Oct. 1869	Manufacturing bars or links of wrought iron or other metal used in the construction of suspension or girder bridges and for other purposes.
HOWARTH, ROBERT - - -	2326	3rd Aug. 1869	Machines for polishing threads.
HOWCROFT, THOMAS - - -	131	15th Jan. 1869	Reaping and mowing machines.
HOWCROFT, THOMAS - - -	658	4th March 1869	Machinery or apparatus for reaping and mowing and for spreading and collecting grass.
HOWDEN, JAMES - - -	1011	3rd April 1869	Materials for preventing the escape of heat from the surfaces of cylinders, boilers and other vessels or apparatus containing heat.
HOWE, BENJAMIN PORTER -	2855	1st Oct. 1869	Sewing-machines. (Patented by William Edward Newton.)
HOWE, GEORGE WILLIAM -	1811	12th June 1869	An improved construction of steam gauge. (Communicated by James H. Miller.)
HOWE, JOHN, JR. - - -	639	2nd March 1869	A new and useful improvement in navigable vessels.
HOWE, OZIAL ADNAH - - -	2088	10th July 1869	An improved machine for manufacturing horse-shoes. (Patented by William Robert Lake.)
HOWES, WALTER - - -	649	3rd March 1869	Improvements in carriage lamps and in the arms by which carriage lamps are attached to carriages.
HOXSIE, SOLOMON KENYON -	1004	2nd April 1869	Coal and grain boat elevators.
HUCH, EDWARD HEINSON -	935	27th March 1869	Improvements in storing and preserving meat and other articles of food on board ship, and in apparatus for that purpose.
HUDDART, GEORGE AUGUSTUS	1487	14th May 1869	Construction of railways.
HUDDART, GEORGE AUGUSTUS	2854	1st Oct. 1869	Joining or fishing the rails of railways.
HUDSON, CHARLES - - -	2992	14th Oct. 1869	Machinery for the manufacture of paper.
HUDSON, CHARLES HENRY -	3461	30th Nov. 1869	Improvements in cots or bedsteads and guards to be attached thereto, which latter may also be used in other positions.
HUDSON, EDWARD NEEVES -	1389	6th May 1869	Carriages, vehicles or conveyances propelled or moved by the power of persons carried or conveyed thereby.
HUDSON, HERON - - -	2417	13th Aug. 1869	An improved apparatus for effecting communication between railway passengers, guards and engine-drivers.
HUDSON, ISAAC - - -	715	9th March 1869	Certain improvements in self-acting "tilts" for casks, barrels or other receptacles.
HUDSON, JAMES - - -	1580	21st May 1869	Looms for weaving.
HUDSON, JAMES - - -	2992	14th Oct. 1869	Machinery for the manufacture of paper.
HUDSON, JAMES - - -	3050	20th Oct. 1869	Machinery for opening and closing the gates of railway crossings.
HUDSON, JAMES, the younger -	2992	14th Oct. 1869	Machinery for the manufacture of paper.
HUGGETT, JOHN - - -	2952	11th Oct. 1869	Improvements in the manufacture of nails and in apparatus employed in such manufacture.
HUGGETT, JOHN ALBERT -	2952	11th Oct. 1869	Improvements in the manufacture of nails and in apparatus employed in such manufacture.
HUGGINS, WILLIAM - - -	217	23rd Jan. 1869	Improvements in dressing millstones and in apparatus to be used therefor.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HUGHES, EDWARD JOSEPH -	1657	29th May 1869	Preparation of cloth and yarn for printing and dyeing. (Communicated by Charles Dreyfus.)
HUGHES, EDWARD THOMAS -	296	30th Jan. 1869	A new file-planing machine. (Communicated by Hermann Moritz and Jacob Reinach.)
HUGHES, EDWARD THOMAS -	297	30th Jan. 1869	A new file cutting machine. (Communicated by Hermann Moritz and Jacob Reinach.)
HUGHES, EDWARD THOMAS -	482	17th Feb. 1869	Washing-machines. (Communicated by Oscar Schimmel.)
HUGHES, EDWARD THOMAS -	656	4th March 1869	An improved process for casting chain. (Communicated by Cornelius Charles Edgar Van Alstine and John Christian Hofer.)
HUGHES, EDWARD THOMAS -	841	19th March 1869	Weighing scales. (Communicated by Peter Falardo.)
HUGHES, EDWARD THOMAS -	1108	10th April 1869	An improved stitch for sewing or stitching together straw, braid or similar articles, and machinery for making the same. (Communicated by Nathan Adolphus Baldwin.)
HUGHES, EDWARD THOMAS -	1184	17th April 1869	Improvements in rifled fire-arms and ordnance, and in ammunition for the same. (Communicated by Oliver Fisher Winchester.)
HUGHES, EDWARD THOMAS -	1451	12th May 1869	Tea and coffee urns. (Communicated by George Jones.)
HUGHES, EDWARD THOMAS -	1585	22nd May 1869	Improvements in horse-shoe nails and in machinery for the manufacture of the same. (Communicated by John Starr Griffing.)
HUGHES, EDWARD THOMAS -	1597	24th May 1869	Machinery or apparatus for the manufacture of brushes. (Communicated by Albert Milton White.)
HUGHES, EDWARD THOMAS -	1726	4th June 1869	Improvements in machinery for the manufacture of wood boring instruments and in auger bits. (Communicated by William Arthur Ives.)
HUGHES, EDWARD THOMAS -	1802	11th June 1869	Saws or other similar instruments for cutting and dressing stone. (Communicated by Isaac Edwin Newton.)
HUGHES, EDWARD THOMAS -	1962	29th June 1869	Improvements in the manufacture of sugar and in apparatus employed therein. (Communicated by Joseph Kodl and Johann Jugl.)
HUGHES, EDWARD THOMAS -	2387	10th Aug. 1869	Improvements in the construction of rock boring machinery and in air compressors for working the same, part of which improvements are applicable to other purposes. (Communicated by Robert Gray Ford.)
HUGHES, EDWARD THOMAS -	2465	18th Aug. 1869	Improvements in the manufacture of boots and shoes, and in machinery or apparatus employed therein. (Communicated by Nathan Adolphus Baldwin.)

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AND APPLICANTS FOR PATENTS OF INVENTION.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HUGHES, EDWARD THOMAS -	2468	18th Aug. 1869	Looms for weaving. (Communicated by Nathan Adolphus Baldwin.)
HUGHES, EDWARD THOMAS -	2620	6th Sept. 1869	Construction of doors and similar articles. (Communicated by John Law.)
HUGHES, EDWARD THOMAS -	3010	15th Oct. 1869	Improvements in means and apparatus for regulating or controlling the delivery of tickets at railway stations and other similar places, part of which improvements is applicable to telegraphic purposes. (Communicated by Philipp Bogler and Heinrich Kayser.)
HUGHES, EDWARD THOMAS -	3011	15th Oct. 1869	An improved lift for raising and lowering merchandize and weights of all descriptions. (Communicated by Philipp Bogler and Heinrich Kayser.)
HUGHES, EDWARD THOMAS -	3462	30th Nov. 1869	Improvements in the manufacture of elliptic springs and in apparatus employed therein. (Communicated by Benjamin Tyler Henry.)
HUGHES, EDWARD THOMAS -	3628	15th Dec. 1869	Wood moulding and paneling machines. (Communicated by Alonzo Stockbridge Gear.)
HUGHES, EDWARD THOMAS -	3684	20th Dec. 1869	Improved garments to be worn next the skin for sanitary purposes. (Communicated by Messieurs Charles Mez and Sons.)
HUGHES, GEORGE DOUGLAS -	1075	9th April 1869	Self-acting safety valves for steam-boilers.
HUGHES, HESKETH - -	2835	29th Sept. 1869	Improved means of rolling or reducing metal rods, bars or tubes.
HUGHES, WALTER WATSON -	389	8th Feb. 1869	Fans or apparatus for forcing or drawing air. (Patented by Henry John Richman.)
HUGO, EUGÈNE ARMAND [ALEXIS.]	2852	1st Oct. 1869	Manufacture of pressed leather.
HUGUNIN, ROBERT BEATSON -	1373	4th May 1869	Railway carriage wheels. (Patented by Alfred Vincent Newton.)
HULBERT, HENRY CARELTON -	2807	27th Sept. 1869	Manufacture of sized paper. (Patented by George Tomlinson Bousfield.)
HUMES, JOHN JOSEPH REVELEY	1666	29th May 1869	Brick moulds as applicable to brick machinery. (Communicated by George Scott.)
HUMPHREY, JOHN - - -	1659	29th May 1869	Improvements in the construction of iron keelsons and in the application thereof to wooden ships and vessels.
HUNT, BRISTOW - - -	90	12th Jan. 1869	Water meters. (Communicated by Gerard Sickels and John H. Thorndike.)
HUNT, BRISTOW - - -	388	8th Feb. 1869	An improved manometro-barometric apparatus and vacuum gauge, applicable also as a safety valve. (Communicated by Jean Baptiste Jova Mignon and Stanislas Henri Rouart.)
HUNT, BRISTOW - - -	455	15th Feb. 1869	Saws. (Communicated by Gottlieb Maulick, Thomas Preston Marshall and George Whitfield Rowley.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HUNT, BRISTOW - - -	573	24th Feb. 1869	Improved apparatus for regulating friction on the bobbins of machines used for spinning cotton and other fibrous materials. (Communicated by Charles Catel.)
HUNT, BRISTOW - - -	717	9th March 1869	Road locomotives. (Communicated by Jean François Cail.)
HUNT, BRISTOW - - -	1358	3rd May 1869	Improvements in spinning hemp, flax and other fibrous substances, and in apparatus to be employed therefor. (Communicated by Ernest Basia.)
HUNT, BRISTOW - - -	1411	8th May 1869	Horse collars. (Communicated by Laurent Cogent.)
HUNT, BRISTOW - - -	1858	16th June 1869	An improved apparatus for ventilating and purifying rooms or apartments. (Communicated by Sylvester Harnden.)
HUNT, BRISTOW - - -	2180	19th July 1869	Looms for weaving. (Communicated by Louis Tiberghien, Jules Tiberghien, Charles Tiberghien, Edouard Vanderstickel and Gérard Vanderstickel.)
HUNT, BRISTOW - - -	2264	26th July 1869	Valves. (Communicated by Gerard Sickels and John Hill Thorndike.)
HUNT, BRISTOW - - -	2350	6th Aug. 1869	A new or improved numbering register or apparatus. (Communicated by Gerard Sickels and John Hill Thorndike.)
HUNT, BRISTOW - - -	2454	17th Aug. 1869	Improved apparatus for spinning yarns of flax, hemp, tow and other textile materials. (Communicated by Ernest Basia.)
HUNT, BRISTOW - - -	2535	26th Aug. 1869	Improvements in steam condensers and in supplying steam generators with water. (Communicated by Jean François Cail.)
HUNT, BRISTOW - - -	2544	27th Aug. 1869	Machinery or apparatus for hulling, cleansing and polishing or preparing coffee, rice and other berries or grain. (Communicated by James Fowle Baldwin Marshall and Augustus Jones.)
HUNT, BRISTOW - - -	2777	24th Sept. 1869	An improved automatic railway carriage or car brake. (Communicated by Archibald Inglis Walker and Thomas Edwin Whitcomb.)
HUNT, BRISTOW - - -	2901	6th Oct. 1869	Decoration or ornamentation of metals. (Communicated by Charles Besançon.)
HUNT, BRISTOW - - -	3715	23rd Dec. 1869	Railway sleepers or supports. (Communicated by Charles Stanislas Nestor Etey.)
HUNT, THOMAS STERRY - -	460	15th Feb. 1869	Extracting copper from its ores. (Patented by Arthur Hornby Lewis.)
HUNT, THOMAS STERRY - -	2425	13th Aug. 1869	Extracting copper from its ores. (Patented by James Lewis.)
HUNTER, WILLIAM ANTHONY	1077	9th April 1869	Apparatus for lighting street and other lamps.

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AND APPLICANTS FOR PATENTS OF INVENTION.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HUNTLEY, WILLIAM - -	3260	12th Nov. 1869	Improvements in a machine for dusting brand or separating the flour from the brand after it has undergone the usual process of bolting, and also for cleaning cracked wheat and other grain. (Patented by Martin Benson.)
HURD, FREDERICK - - -	906	25th March 1869	Improvements in machinery for excavating coal and other minerals, and in apparatus for compressing air for driving the same and for other purposes.
HURST, RICHARD - - -	2152	16th July 1869	Apparatus for raising, forcing and regulating the flow of water.
HUTCHINSON, ALCANDER -	760	12th March 1869	Goloshes, shoes or overshoes made of india-rubber. (Patented by William Cozhead.)
HUTCHINSON, ELIAS SMITH -	933	27th March 1869	Certain new and useful improvements in processes and apparatus for extracting oleaginous matter from vegetable, animal or mineral substances, in the preparation of material for distillation and the manufacture of starch, sugar and fertilizing agents. (Patented by Benjamin Joseph Barnard Mills.)
HUTCHINSON, SAMUEL - -	2389	10th Aug. 1869	Machinery or apparatus for "striking-out" leather.
HUTCHINSON, WILLIAM - -	2063	9th July 1869	Machinery and apparatus employed in the manufacture of bricks and other articles of clay.
HUTCHINSON, WILLIAM NEL- [son.	2480	19th Aug. 1869	Locomotive engines and railway carriages.
HUTSON, EZRA - - -	1880	18th June 1869	Pushing jacks or apparatus to facilitate moving railway carriages. (Patented by Emil Haas and Vincent Wanostrocht.)
HUTTON, DARTON - - -	1488	14th May 1869	Apparatus for lifting building blocks of stone, concrete or other material, and for disengaging such blocks from the lifting apparatus. (Patented by George Tomlinson Bousfield.)
HYATT, THADDEUS - - -	2869	2nd Oct. 1869	An improved mode of covering, lighting and ventilating areas, vaults and similar underground spaces, applicable also as a foot way. (Patented by Benjamin Franklin Stevens.)
HYATT, THADDEUS - - -	3549	8th Dec. 1869	Improvements in the working of glass and in forming sheets and other articles therefrom. (Patented by Benjamin Franklin Stevens.)
HYDE, JOHN - - -	2262	26th July 1869	An improved safety lamp for mining purposes.
HYDE, JOSEPH - - -	2262	26th July 1869	An improved safety lamp for mining purposes.
HYDES, THOMAS - - -	3087	23rd Oct. 1869	Propelling ships and other navigable vessels.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
HYMAS, JAMES - - -	557	23rd Feb. 1869	Grate bars.
HYMAS, JAMES - - -	2788	25th Sept. 1869	Fire bars.
HYNAM, JOHN - - -	1098	10th April 1869	Apparatus for the manufacture of crucibles and other hollow articles from plastic materials.
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I'ANSON, JAMES, junior - -	2742	21st Sept. 1869	Locking apparatus for controlling railway switches and signals.
IBBOTSON, ALFRED BUCKING- [HAM.	2386	7th Aug. 1869	Joints for uniting and securing the ends of railway rails.
IBBOTSON, ALFRED BUCKING- [HAM.	2625	6th Sept. 1869	Joints for uniting and securing the ends of railway rails.
IBBOTSON, ALFRED BUCKING- [HAM.	3088	23rd Oct. 1869	Metallic keys or wedges for supporting and securing railway rails in their chairs, and a method of manufacturing such keys or wedges.
IBBOTSON, SAMUEL FISHER -	2625	6th Sept. 1869	Joints for uniting and securing the ends of railway rails.
IBOS, EUGÈNE - - -	3713	23rd Dec. 1869	Manufacture of boot and shoe soles.
IBOTSON, WILLIAM - - -	540	22nd Feb. 1869	An improved method of and apparatus for preparing esparto, straw, rags or other materials for the manufacture of paper.
IDLE, RALPH - - -	3653	17th Dec. 1869	Apparatus for consuming smoke.
ILLSTON, GEORGE - - -	898	24th March 1869	Sewing-machines.
ILLSTON, GEORGE - - -	2524	25th Aug. 1869	Sewing-machines.
ILLSTON, GEORGE - - -	3688	20th Dec. 1869	Sewing-machines.
ILWHAM, JAMES MC - - -	2068	9th July 1869	Looms for weaving.
IMBS, JOSEPH - - -	10	1st Jan. 1869	Machinery or apparatus for combing fibrous materials. (Patented by Michael Henry.)
IMRAY, JOHN - - -	2171	19th July 1869	Sewing-machines.
ING, HENRY - - -	1453	12th May 1869	Fastenings and clasps for albums, books and other like articles.
INGALLS, WILLIAM ALLEN -	2851	1st Oct. 1869	Improvements in screws and in the method of casting the same. (Patented by John Henry Johnson.)
INGHAM, HENRY - - -	3369	22nd Nov. 1869	Shuttles for weaving.
INGHAM, JAMES - - -	796	16th March 1869	Improvements in carding-engines of the class in which the doffing cylinder is divided into spaces, and a novel method of testing and utilizing the slivers from the same.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
INGHAM, JAMES - - -	1929	24th June 1869	Improvements in carding-engines by which the doffer is divided into spaces such that the slivers are at will made of the same weight and their width adjusted, to produce rovings or slubbings suitable for spinning cotton waste and similar substances.
INGHAM, JOHN - - -	1644	28th May 1869	Machinery or apparatus for dressing warps.
INGHAM, JONAS - - -	3369	22nd Nov. 1869	Shuttles for weaving.
INGHAM, JONATHAN - - -	3369	22nd Nov. 1869	Shuttles for weaving.
INGHAM, RICHARD - - -	796	16th March 1869	Improvements in carding-engines of the class in which the doffing cylinder is divided into spaces, and a novel method of testing and utilizing the slivers from the same.
INGHAM, RICHARD - - -	1929	24th June 1869	Improvements in carding-engines by which the doffer is divided into spaces such that the slivers are at will made of the same weight and their width adjusted, to produce rovings or slubbings suitable for spinning cotton waste and similar substances.
INGLEFIELD, EDWARD AUGUS- [TUS.	835	19th March 1869	Steering apparatus worked by hydrostatic pressure.
INGLEFIELD, EDWARD AUGUS- [TUS.	3654	17th Dec. 1869	Hydraulic apparatus to be used on ship-board for utilising the pressure of the external water.
INGLETON, JAMES - - -	3238	10th Nov. 1869	Waterclosets.
INGLIS, WILLIAM - - -	1598	24th May 1869	Improvements relating to steam-engine governors and admission or throttle valves.
INMAN, JOHN - - -	12	2nd Jan. 1869	Taps and valves.
INMAN, JOHN - - -	1996	2nd July 1869	Valves or valve taps for regulating the discharge or flow of water or other fluids or gases.
INVITI, PIETRO - - -	2080	10th July 1869	A new or improved kitchen-cart to be used for military and other purposes. (Patented by Cavaliere Leonida Caldesi.)
IRELAND, GEORGE - - -	3096	25th Oct. 1869	Nut crackers.
IRVINE, ROBERT - - -	1700	2nd June 1869	Manufacture or preparation of lubricants or softeners, and the application of the same to the treatment of hemp, jute, flax and other like fibrous materials.
IRVING, JAMES - - -	2178	19th July 1869	A new process of converting wood shavings, flax, tow, hemp, jute, esparto-grass, straw, hay and other materials of a fibrous nature, into paper pulp.
ISAAC, LEWIS - - -	1312	28th April 1869	Folding or collapsible tables, stands and stools.
ISABEL, — - - -	286	29th Jan. 1869	Horse shoes. (Patented by Adolphe Mallard.)
ISANGK, BERNARD - - -	2587	1st Sept. 1869	Apparatus for indicating and registering the pressure of steam or other gases or liquids.
ISRAEL, LOUIS ASH - - -	881	23rd March 1869	Mode of and machinery or apparatus for manufacturing sulphuric acid.
IVERNOIS, EARDLEY LOUIS [CHARLES D'.]	917	25th March 1869	An improved electro-magnetic machine. (Patented by William Robert Lake.)
IVES, JOSEPH - - -	1182	16th April 1869	An improved construction of velocipede.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
IVES, WILLIAM ARTHUR - -	570	24th Feb. 1869	Mechanism for making circular tenons and mortises.
IVES, WILLIAM ARTHUR - -	1726	4th June 1869	Improvements in machinery for the manufacture of wood boring instruments and in auger bits. (Patented by Edward Thomas Hughes.)
IVOR, WILLIAM MAC - -	2588	1st Sept. 1869	Treatment of hydrocarbon oils.
IVOR, WILLIAM Mc - -	3084	23rd Oct. 1869	A process whereby sulphuric acid residues produced in the refining of oleaginous and bituminous matters may be utilised and employed for the production of sulphate of soda and sulphide of sodium and black ash.

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JACK, ALEXANDER - - -	1272	24th April 1869	Reaping and mowing machines.
JACK, JAMES - - -	840	19th March 1869	Construction of ships to adapt them for auxiliary screw propellers.
JACK, MICHAEL - - -	2122	14th July 1869	Agricultural implements such as are used for drilling, grubbing and similar operations.
JACKSON, DAVID - - -	3051	20th Oct. 1869	Machinery for cutting, shaping and dressing stone.
JACKSON, FRANCIS - - -	1331	30th April 1869	Lubricators for steam-engines.
JACKSON, FRANCIS - - -	2303	31st July 1869	Lubricators for steam-engines.
JACKSON, JOHN WILLIAM -	2074	10th July 1869	Breakwaters, sea defence walls or entrance for docks, and docks.
JACKSON, JOSEPH - - -	3170	1st Nov. 1869	Improved means of preventing the escape of smoke from steam-boiler and other furnaces.
JACKSON, SAMUEL - - -	1570	21st May 1869	Window shutters.
JACKSON, WILKINSON - -	3170	1st Nov. 1869	Improved means of preventing the escape of smoke from steam-boiler and other furnaces.
JACOB, ARTHUR - - -	528	20th Feb. 1869	Ventilation of sewers.
JACOBI, JULIUS - - -	2744	21st Sept. 1869	An improved process for removing phosphates from ores and for utilizing these phosphates.
JACOBI, MAURICE HERRMANN	2456	17th Aug. 1869	An improved galvanoplastic process for depositing iron, applicable for the reproduction of engraved surfaces, stereotyping and other useful and ornamental purposes. (Partly communicated by Eugene Klein.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
JACQUEL, PAUL - - -	2215	21st July 1869	Carding-engines. (Patented by Alexander Melville Clark.)
JACQUEMARD, LÉON VICTOR -	2624	6th Sept. 1869	Apparatus for rectifying alcohols. (Patented by William Edward Gedge.)
JACQUES, PIERRE - - -	3033	18th Oct. 1869	An improved process for purifying and decolouring blood-albumen and apparatus employed therein.
JAMES, ISAAC - - -	2014	3rd July 1869	Machinery or apparatus for crushing or breaking stones, bones and other hard substances.
JAMES, JABEZ - - -	807	17th March 1869	Improved apparatus for compressing powders into pellets.
JAMES, JABEZ - - -	3134	29th Oct. 1869	Apparatus for bending and jointing metallic or other sheets so as to form boxes, cans or other vessels.
JAMES, JABEZ - - -	3475	1st Dec. 1869	Apparatus for stamping or marking letters, packets or other articles.
JAMES, THOMAS - - -	2065	9th July 1869	Sewing-machines.
JAMIESON, JOHN - - -	1330	30th April 1869	Construction of steam-engines.
JAQUES, JAMES ARCHIBALD -	101	13th Jan. 1869	Manufacture of elastic rubbers.
JAQUES, JAMES ARCHIBALD -	697	8th March 1869	Machines for grinding and surfacing rings, plates, discs and other analogous articles made of iron or steel.
JAQUES, JAMES ARCHIBALD -	2657	9th Sept. 1869	Machinery for grinding and surfacing rings, plates, discs and other analogous articles.
JAQUILLARD, ABRAM - - -	932	27th March 1869	Musical boxes. (Patented by Jean Jaquillard.)
JAQUILLARD, JEAN - - -	932	27th March 1869	Musical boxes. (Partly communicated by Abram Jaquillard.)
JARVIS, JOHN STEPHEN - -	1496	15th May 1869	A seamless collar and tie combined.
JARVIS, MATTHEW - - -	1563	20th May 1869	Lock spindles and door knobs to be used therewith.
JASPAR, JOSEPH - - -	1887	19th June 1869	Apparatus for ascertaining weights and strains. (Patented by Clinton Edgcumbe Brooman.)
JAUBERT, JOSEPH MARCEL [MARSEILLE.]	772	12th March 1869	The application and treatment of a new material for the preparation of pulp for paper. (Patented by Alexander Melville Clark.)
JAY, FRANCIS - - -	287	29th Jan. 1869	Manufacture of oil paint.
JEAVONS, JOSHUA - - -	139	16th Jan. 1869	Improvements in the manufacture of iron and steel, and in the apparatus connected therewith.
JEAVONS, JOSHUA - - -	3501	3rd Dec. 1869	Manufacture of armour plates or other heavy forms of malleable iron or steel, or of steel and iron combined.
JEFFERIES, JOHN ROBERT -	1335	30th April 1869	Horse rakes.
JELLYMAN, SAMUEL - - -	97	13th Jan. 1869	Reaping and mowing machines.
JENKIN, FLEEMING - - -	390	8th Feb. 1869	Apparatus for producing electric light.
JENKIN, FLEEMING - - -	3071	21st Oct. 1869	Bridges.
JENKIN, FLEEMING - - -	3236	10th Nov. 1869	Submarine telegraph cables.
JENKINS, JOHN - - -	2462	18th Aug. 1869	Improvements in treating and in lining the interior of casks, to preserve their contents from the effects of must or other smells arising from the wood.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
JENNINGS, HERBERT THOMAS	519	19th Feb. 1869	Steam-engines.
JENNINGS, JOSIAH GEORGE -	791	15th March 1869	Apparatus for preparing sewage for irrigating land.
JENNINGS, JOSIAH GEORGE -	1153	14th April 1869	Improvements in building blocks and in the construction of buildings, and in appliances necessary to warming and draining the same.
JENNINGS, THOMAS - -	519	19th Feb. 1869	Steam-engines.
JENNY, CHARLES FREDERICK	1401	7th May 1869	Fluid meters. (Patented by Ernest Seyd.)
JENSEN, PETER - - -	346	4th Feb. 1869	Mode of utilizing the motion of the waves relatively to that produced by them on the ship, for the propelling of the same or for other useful purposes. (Communicated by Jochum Knudsen.)
JENSEN, PETER - - -	1091	9th April 1869	Improvements in centrifugal and other pumps and in syphons. (Communicated by August Christian Nagel and Reinhold Hermann Kaemp.)
JENSEN, PETER - - -	1270	24th April 1869	Sewing-machines with rotary spoolhook for protecting spoolhook and bobbin from damage, and for preventing breakage of thread and needle. (Communicated by Heinrich Pollack and Albert Edwin Schmidt.)
JENSEN, PETER - - -	1825	15th June 1869	Improvements in manufacture of glass and in apparatus for the same. (Communicated by Albert Pütsch, Hermann Pütsch and Georg Leuffgen.)
JENSEN, PETER - - -	3171	1st Nov. 1869	Guns for bayonet drill. (Communicated by Frederic de Wählfeldt.)
JERRAM, GEORGE BESTALL -	2921	8th Oct. 1869	Improvements in the construction of concrete and cement buildings, structures and articles, and in apparatus to be employed therein.
JESSURUN, DAVID - - -	2661	10th Sept. 1869	A new and improved method of and apparatus or appliances for the manufacture of cigars. (Patented by William Morris.)
JOBSON, ALFRED - - -	558	23rd Feb. 1869	Improvements in machinery or apparatus for discharging, and in the arrangement and construction of coke ovens, also in the mode of utilizing the waste heat of coke ovens.
JOBSON, JOHN - - -	354	5th Feb. 1869	Explosive projectiles.
JOHNSON, BRYAN - - -	3409	25th Nov. 1869	Hydraulic cranes or apparatus for moving weights.
JOHNSON, DAVID - - -	740	10th March 1869	Machinery for decorticating and cleaning grain.
JOHNSON, DAVID - - -	1112	10th April 1869	An improved mode of and machinery for manufacturing flour.
JOHNSON, EDWARD - - -	3622	15th Dec. 1869	Improvements in the arrangement and construction of granaries, and in machinery or apparatus for drying, renovating, elevating and distributing grain. (Communicated by George Hardesty Johnson.)
JOHNSON, FREDERICK - -	1527	18th May 1869	Umbrellas.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
JOHNSON, GEORGE - - -	1787	9th June 1869	Looms for weaving ribbons, trimmings and frillings.
JOHNSON, GEORGE HARDESTY	3622	15th Dec. 1869	Improvements in the arrangement and construction of granaries, and in machinery or apparatus for drying, renovating, elevating and distributing grain. (Patented by Edward Johnson.)
JOHNSON, JOHN - - -	403	9th Feb. 1869	Apparatus for heating and ventilating. (Patented by John Henry Johnson.)
JOHNSON, JOHN GARNER -	140	16th Jan. 1869	Self-acting signalling apparatus applicable for use on railways or tramways and for other purposes.
JOHNSON, JOHN HENRY -	11	2nd Jan. 1869	Improvements in certain vehicles commonly known as "velocipedes." (Communicated by Joseph Athénas Philippe Auguste de Cantillon de Ballyhigue.)
JOHNSON, JOHN HENRY -	31	5th Jan. 1869	Improvements in sewing-machines, applicable to other machines worked by foot power. (Communicated by Greenleaf Stackpole.)
JOHNSON, JOHN HENRY -	51	7th Jan. 1869	Preparation of concentrated food tablets or cakes. (Communicated by Augustin Spont.)
JOHNSON, JOHN HENRY -	83	11th Jan. 1869	Improvements in the manufacture of boxes and other hollow articles from paper pulp, and in the machinery or apparatus employed therein. (Communicated by Richard Smith.)
JOHNSON, JOHN HENRY -	141	16th Jan. 1869	Improvements in the manufacture of casks, tubs and other like receptacles, and in the machinery or apparatus employed therein. (Communicated by Louis Florian Pile.)
JOHNSON, JOHN HENRY -	163	18th Jan. 1869	Improvements in the burning of bricks and other like articles, and in the kilns and apparatus employed therein. (Communicated by Henry Wright Adams.)
JOHNSON, JOHN HENRY -	256	27th Jan. 1869	Keys or wedges to be employed in the permanent way of railways and for other like purposes. (Communicated by Théodore Despiau.)
JOHNSON, JOHN HENRY -	284	29th Jan. 1869	Improvements in the manufacture of piles, faggots or billets of iron or steel, and in the machinery or apparatus employed therein. (Communicated by George H. Sellers.)
JOHNSON, JOHN HENRY -	361	5th Feb. 1869	Mounting and working ordnance. (Communicated by Jules César Houel and Ferdinand Louis Felix Caillet.)
JOHNSON, JOHN HENRY -	384	8th Feb. 1869	Steam-engine governors. (Communicated by William Bellis.)
JOHNSON, JOHN HENRY -	403	9th Feb. 1869	Apparatus for heating and ventilating. (Communicated by John Johnson.)
JOHNSON, JOHN HENRY -	404	9th Feb. 1869	Manufacture of paper. (Communicated by Charles Alexandre Thirion.)
JOHNSON, JOHN HENRY -	550	22nd Feb. 1869	Velocipedes. (Communicated by Lucien Bonaparte Flanders.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
JOHNSON, JOHN HENRY -	610	27th Feb. 1869	Machinery or apparatus for measuring raw silk. (Communicated by Gerand Deckamp.)
JOHNSON, JOHN HENRY -	664	4th March 1869	Dyeing and printing with aniline colors. (Communicated by Pierre Blumer-Zocifel.)
JOHNSON, JOHN HENRY -	753	11th March 1869	Improvements in the preparation of artificial fuel, and in the manufacture of gas and coke therefrom. (Communicated by Jean Marie Joseph Charles Du Lin and Jean Auguste Combe d'Almas.)
JOHNSON, JOHN HENRY -	825	18th March 1869	Improvements in fire-arms and ordnance and in cartridges to be used therewith, which cartridges are also applicable to other fire-arms, to the exploding of destructive engines of warfare and for use in mines. (Communicated by Charles Louis Joseph Cousin.)
JOHNSON, JOHN HENRY -	884	23rd March 1869	Artificial stone blocks applicable to streets, railways and building purposes. (Communicated by François Coignet.)
JOHNSON, JOHN HENRY -	908	25th March 1869	Manufacture of iron and steel. (Communicated by Emile Muller.)
JOHNSON, JOHN HENRY -	1106	10th April 1869	Apparatus for removing hair from skins. (Communicated by Emile Etienne Auguste Galibert.)
JOHNSON, JOHN HENRY -	1136	13th April 1869	Machinery or apparatus for making compound telegraph wire or conductors. (Communicated by Alanson Cary, Moses Gerrish Farmer, George F. Milliken and John Montgomery Batchelder.)
JOHNSON, JOHN HENRY -	1138	13th April 1869	A dental wash. (Communicated by Charles Lamoureux and Charles Alexandre Hubert Chonet.)
JOHNSON, JOHN HENRY -	1152	14th April 1869	Apparatus for burning liquid hydrocarbons applicable to the generation of steam and other heating purposes. (Communicated by Homer Taylor.)
JOHNSON, JOHN HENRY -	1169	15th April 1869	Motive-power engines and steam generators. (Communicated by Antoine Etienne Montigny.)
JOHNSON, JOHN HENRY -	1180	16th April 1869	Improvements in fire-arms and in elevation sights for the same. (Communicated by Aloÿse Muller.)
JOHNSON, JOHN HENRY -	1459	12th May 1869	Improvements in saw teeth and in machinery or apparatus for forming the same. (Communicated by Robert James Lusk, John Lough, Thomas Ritchie, James Ross and William Lough the younger.)
JOHNSON, JOHN HENRY -	1486	14th May 1869	Improvements in the treatment of beetroot and other pulps, and in the machinery or apparatus employed therein. (Communicated by Hugues Champoussis.)
JOHNSON, JOHN HENRY -	1530	18th May 1869	Improvements in fire-arms and in metallic cartridges, and in apparatus for filling the same. (Communicated by General Hiram Berdan.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
JOHNSON, JOHN HENRY -	1603	25th May 1869	Producing imitations of and substitutes for wood, ivory, stone and other hard substances, applicable to the manufacture of billiard balls and other articles. (Communicated by David Blake.)
JOHNSON, JOHN HENRY -	1684	31st May 1869	Stoves for culinary purposes. (Communicated by Jean Baptiste Vanoni.)
JOHNSON, JOHN HENRY -	1721	3rd June 1869	Manufacture of iron. (Communicated by John Burt.)
JOHNSON, JOHN HENRY -	1865	17th June 1869	Improvements in picks, which improvements are also applicable to axes, adzes, rakes, hoes, shovels and other like instruments. (Communicated by Charles Atwood Hardy.)
JOHNSON, JOHN HENRY -	1866	17th June 1869	Manufacture of sugar. (Communicated by George Wilkinson.)
JOHNSON, JOHN HENRY -	1916	23rd June 1869	Injectors for feeding steam generators. (Communicated by Henry Giffard.)
JOHNSON, JOHN HENRY -	1985	1st July 1869	Breech-loading fire-arms. (Communicated by Robert Errett Stephens, James Ferrier the younger and George Davis Ferrier.)
JOHNSON, JOHN HENRY -	2054	7th July 1869	Improvements in the preparation of meat for preservation and in the preservation of the same. (Communicated by Azel Storrs Lyman.)
JOHNSON, JOHN HENRY -	2141	15th July 1869	Agricultural implements. (Communicated by Victor Léandre Emile Rouyer.)
JOHNSON, JOHN HENRY -	2166	17th July 1869	Improvements in blasting and in the apparatus or means employed therein. (Communicated by Eugène François Desiré Ruggieri.)
JOHNSON, JOHN HENRY -	2170	19th July 1869	Sewing-machines. (Communicated by Leonard Erni.)
JOHNSON, JOHN HENRY -	2196	20th July 1869	Dyeing and printing. (Communicated by Pierre Blumer-Zweifel.)
JOHNSON, JOHN HENRY -	2212	21st July 1869	Obtaining extract from hops. (Communicated by Hugh Burgess.)
JOHNSON, JOHN HENRY -	2240	23rd July 1869	Joints of pipes and tubes. (Communicated by Jean Baptiste Denans.)
JOHNSON, JOHN HENRY -	2241	23rd July 1869	Improvements in purifying alcohol and paraffine and in the apparatus employed therein. (Communicated by Charles Chauncey Parsons.)
JOHNSON, JOHN HENRY -	2269	26th July 1869	Treatment of night soil and other waste products, and for the manufacture of manure therefrom. (Communicated by James Alexander Manning.)
JOHNSON, JOHN HENRY -	2377	9th Aug. 1869	Improvements in the manufacture of felted fabrics and in the application of such fabrics to the manufacture of hats and other useful purposes. (Communicated by François André Duchêne the elder.)
JOHNSON, JOHN HENRY -	2409	11th Aug. 1869	Manufacture of iron and steel. (Communicated by James Jones Johnston.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
JOHNSON, JOHN HENRY -	2458	17th Aug. 1869	Improvements in the manufacture of iron and in the apparatus employed therein. (Communicated by David Stewart.)
JOHNSON, JOHN HENRY -	2510	23rd Aug. 1869	Producing imitations of and substitutes for wood, ivory, stone and other hard substances, applicable to the manufacture of billiard balls and other articles. (Communicated by David Blake.)
JOHNSON, JOHN HENRY -	2663	10th Sept. 1869	An improved fastening for metallic hoops or bands. (Communicated by Ewan Christian.)
JOHNSON, JOHN HENRY -	2669	11th Sept. 1869	Apparatus for producing sonorous signals and musical sounds. (Communicated by Jules Antoine Lissajous and Henri Pierre Flaud.)
JOHNSON, JOHN HENRY -	2705	16th Sept. 1869	Improvements in correcting the deviations of the mariner's compass and dipping needle and in apparatus employed therein. (Communicated by Louis Francois Alexandre Arson.)
JOHNSON, JOHN HENRY -	2851	1st Oct. 1869	Improvements in screws and in the method of casting the same. (Communicated by William Allen Ingalls.)
JOHNSON, JOHN HENRY -	2939	9th Oct. 1869	Nail-making machines. (Communicated by F. Davison.)
JOHNSON, JOHN HENRY -	3048	19th Oct. 1869	Improvements in heating and in apparatus employed therein. (Communicated by Samuel Anson Hill and Charles Frederick Thumm.)
JOHNSON, JOHN HENRY -	3095	25th Oct. 1869	An improved adhesive compound and its application to stamps, labels, wrappers, envelopes and other like articles. (Communicated by Philip Syng Physick Conner.)
JOHNSON, JOHN HENRY -	3254	11th Nov. 1869	Treatment of caoutchouc, gutta-percha and analogous gums, for the production therefrom of articles of utility and ornament. (Communicated by John Ballou Newbrough and Edward Fagan.)
JOHNSON, JOHN HENRY -	3386	23rd Nov. 1869	Machinery or apparatus for grinding saws. (Communicated by Henry Disston.)
JOHNSON, JOHN HENRY -	3491	2nd Dec. 1869	Spring mattresses. (Communicated by François Ferdinand Zephir Bully.)
JOHNSON, JOHN HENRY -	3541	7th Dec. 1869	Crucibles, melting pots, retorts, furnaces and other articles subjected to an elevated temperature. (Communicated by Auguste Ponsard.)
JOHNSON, JOHN HENRY -	3633	15th Dec. 1869	Means or apparatus for reducing friction. (Communicated by Jean Baptiste Deleye, Armand Desiré, Etienne Paul Legrand and Léon Pierson.)
JOHNSON, JOHN HENRY -	3775	30th Dec. 1869	Production of cast-iron, iron and steel. (Communicated by Jean Marie Joseph Charles Du Lin and Jean Auguste Combe d'Almas.)
JOHNSON, JOHN HENRY -	3776	30th Dec. 1869	Manufacture of iron and steel. (Communicated by Howard Spencer and Lafayette Kauffman Taylor.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
JOHNSON, JOHN MORRIS -	1037	6th April 1869	Improvements in lavatories, laundry washing troughs, washing stands, baths, cattle troughs and other apparatus for holding fluids, or vessels or receptacles containing fluids, and also in apparatus for supplying and intercepting or controlling the flow of fluids, to the same and to other receptacles or articles.
JOHNSON, JOHN ROBERT -	336	3rd Feb. 1869	Manufacture or production of photographic pictures.
JOHNSON, JOSEPH - - -	560	23rd Feb. 1869	Rotary engines and pumps.
JOHNSON, ROBERT - - -	988	31st March 1869	Construction of continuous bar or strained wire fences.
JOHNSON, SIDNEY - - -	3638	16th Dec. 1869	Velocipede carriages and vehicles.
JOHNSON, WILLIAM - - -	1021	5th April 1869	An improvement in machinery for compressing the carbonaceous, resinous or other combustible substances employed in the manufacture of compressed fuel, which improved machinery may also be employed in moulding clay and other building materials.
JOHNSON, WILLIAM - - -	1229	21st April 1869	An improved system of communication between railway passengers and the guard and engine driver of a train.
JOHNSON, WILLIAM - - -	3436	27th Nov. 1869	An improvement in lock fastenings for expanding cases and boxes.
JOHNSON, WILLIAM - - -	3555	9th Dec. 1869	An improvement in machinery for pressing wool, cotton, hemp and other materials.
JOHNSTON, GEORGE - - -	1568	20th May 1869	Improvements in the distillation of spirituous liquors and in apparatus to be employed therefor.
JOHNSTON, JAMES JONES -	2409	11th Aug. 1869	Manufacture of iron and steel. (Patented by John Henry Johnson.)
JOMBART, EMILE - - -	1124	13th April 1869	An improved machine or apparatus for aerial navigation. (Patented by Charles Denton Abel.)
JONAS, JOHN - - - -	3534	7th Dec. 1869	Means or apparatus for packing and consolidating tea and other substances.
JONES, AUGUSTUS - - -	2544	27th Aug. 1869	Machinery or apparatus for hulling, cleansing and polishing or preparing coffee, rice and other berries or grain. (Patented by Bristow Hunt.)
JONES, DAVID - - - -	930	27th March 1869	Manufacture of buckets, pails and other similar articles of hollowware.
JONES, EDWARD STEWART -	1725	4th June 1869	Velocipedes.
JONES, EDWIN FRANCIS -	2158	17th July 1869	Machinery for making nails, spikes and like articles. (Communicated by Frederick Francis Jones.)
JONES, FREDERICK FRANCIS -	2158	17th July 1869	Machinery for making nails, spikes and like articles. (Patented by Edwin Francis Jones.)
JONES, GEORGE - - - -	1451	12th May 1869	Tea and coffee urns. (Patented by Edward Thomas Hughes.)
JONES, GEORGE HUGH - -	1260	24th April 1869	An new or improved manufacture of white lead and apparatus employed therein.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
JONES, HENRY - - -	352	4th Feb. 1869	A new or improved apparatus for sounding tuning forks.
JONES, JAMES GRAFTON - -	3298	15th Nov. 1869	Apparatus for breaking down coal.
JONES, JOHN - - -	2485	19th Aug. 1869	Apparatus for applying electro-magnetism as a motive-power to carriages, boats and machinery in general.
JONES, JOHN HENRY - -	2087	9th July 1869	Lamps.
JONES, RICHARD - - -	267	28th Jan. 1869	Improvements in means or apparatus used in curing or preserving animal substances, which improvements are also applicable in cleansing and impregnating vegetable substances.
JONES, RICHARD - - -	978	31st March 1869	Preservation of animal and vegetable substances to be used as food.
JONES, RICHARD - - -	3223	9th Nov. 1869	A special and general paper, card or form holder, such as for address cards, envelopes, bill heads and general stationery or like matter, and which said invention is also applicable for holding special patterns or fancy goods not of a bulky character.
JONES, THOMAS - - -	1992	2nd July 1869	A new or improved method of attaching or uniting together the body and barrel of repeating fire-arms.
JONES, WILLIAM - - -	1027	5th April 1869	Boilers employed for generating steam.
JONES, WILLIAM - - -	1605	25th May 1869	Certain improvements in mathematical instruments to be employed for scribing or drawing geometrical lines.
JONES, WILLIAM - - -	2483	19th Aug. 1869	Improvements in or applicable to sewing-machines.
JONES, WILLIAM JOHN - -	2931	8th Oct. 1869	Construction of hot water boilers.
JORDAN, JOHN - - -	77	11th Jan. 1869	Means for propelling vessels.
JORDAN, JOHN, the younger -	77	11th Jan. 1869	Means for propelling vessels.
JORET, JOSEPH AUGUSTIN -	1576	21st May 1869	Apparatus for facilitating the opening of eggs. (Patented by Alexander Melville Clark.)
JOSEF, PHILIP PAUL - -	2378	9th Aug. 1869	Means or apparatus for carrying or storing eggs. (Patented by Clinton Edgcombe Broome.)
JOURJON, JULES - - -	3021	16th Oct. 1869	Improved holders for supplying thread to sewing and embroidering machines, and apparatus for filling such holders. (Patented by John James Nancy.)
JOURNAULT, ANTOINE EUGENE	151	16th Jan. 1869	Moulding metal articles. (Patented by Michael Henry.)
JOWETT, BENJAMIN - -	2609	4th Sept. 1869	A new or improved method of advertizing and the application of automatic means or apparatus to be employed for that purpose.
JOY, DAVID - - -	315	2nd Feb. 1869	Means and apparatus for extracting oils and other liquids from the substances in which they are contained.
JOY, SETH - - -	1926	24th June 1869	Apparatus for removing the dust from rag machines and other machines of a similar description.
JUCKES, JOHN - - -	2607	4th Sept. 1869	Construction of furnaces.

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AND APPLICANTS FOR PATENTS OF INVENTION.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
JUGL, JOHANN - - -	1982	29th June 1869	Improvements in the manufacture of sugar and in apparatus employed therein. (Patented by Edward Thomas Hughes.)
JUGLA, ALFRED - - -	3294	15th Nov. 1869	An improvement in gloves.
JÜNGERMANN, CHARLES -	1671	31st May 1869	Needle cases or needle holders. (Patented by Robert Smith Bartleet.)
JÜNGERMANN, CHARLES -	3035	18th Oct. 1869	Cases for the holding of needles and other articles. (Patented by Robert Smith Bartleet.)
JURIE, GUSTAVE - - -	2299	31st July 1869	Process of reproducing on wood all engravings through aqua fortis.
JUSTICE, PHILIP SYNG - -	171	19th Jan. 1869	Improvements in the mode of and in apparatus or mechanism for driving piles. (Patented by Henry Woodcroft Hammond.)
JUSTICE, PHILIP SYNG - -	1781	9th June 1869	Improvements in hammers for forging metals and for other purposes, and in the mode of actuating the same and in the apparatus connected therewith. (Patented by Henry Woodcroft Hammond.)

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KAEMP, REINHOLD HERMANN	1091	9th April 1869	Improvements in centrifugal and other pumps and in syphons. (Patented by Peter Jensen.)
KASELOWSKY, FERDINAND [WILHELM.]	1360	3rd May 1869	Improved machinery for separating the woody part from the fibre of flax, hemp, jute or other fibrous substances of the same nature.
KASTENBEIN, CHARLES - -	2031	6th July 1869	Apparatus or machinery for composing and distributing type. (Patented by Charles Denton Abel.)
KAY, GORDON M ^c - - -	1860	16th June 1869	A new method of and apparatus for counting the stitches made by a sewing-machine. (Patented by William Robert Lake.)
KAY, JOHN - - -	855	20th March 1869	Mouth-pieces of wind-instruments.
KAY, ROBERT HENRY - -	3757	29th Dec. 1869	Manufacture of crape.
KAYSER, HEINRICH - -	1183	17th April 1869	An improved lift for raising and lowering merchandise and weights of all descriptions.
KAYSER, HEINRICH - -	1185	17th April 1869	Means and apparatus for regulating or controlling the delivery of tickets at railway stations and other similar places, part of which invention is applicable to telegraphic purposes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
KAYSER, HEINRICH . - -	3010	15th Oct. 1869	Improvements in means and apparatus for regulating or controlling the delivery of tickets at railway stations and other similar places, part of which improvements is applicable to telegraphic purposes. (Patented by Edward Thomas Hughes.)
KAYSER, HEINRICH - - -	3011	15th Oct. 1869	An improved lift for raising and lowering merchandize and weights of all descriptions. (Patented by Edward Thomas Hughes.)
KEAN, JAMES ASBURY M ^c . -	3004	15th Oct. 1869	An improved machine for drilling or boring rocks, chiefly designed for working mines, tunnels and quarries, and for submarine operations. (Patented by William Robert Lake.)
KEANE, JOHN - - -	651	3rd March 1869	Construction of waterclosets. (Patented by William Edward Newton.)
KEARNEY, JAMES - - -	2302	31st July 1869	Apparatus for concreting sugar-cane juice. (Patented by Duncan Stewart.)
KEATS, JOHN - - -	966	31st March 1869	Improvements in the manufacture of boots and shoes and in machinery to be used in such manufacture.
KEATS, JOHN - - -	2955	11th Oct. 1869	Improvements in the manufacture of boots and shoes and in machinery to be used therein.
KEATS, JOHN - - -	3413	25th Nov. 1869	An improved manufacture of buckle.
KEHLER, FISHER M. - -	2058	8th July 1869	An improved shaving mug. (Patented by James Wright.)
KEEN, ARTHUR - - -	2663	2nd Oct. 1869	A new or improved buckle or tie for fastening hoops or bands of metal around bales of cotton and for other like purposes. (Communicated by John S. Wallis.)
KEEN, RICHARD EDWARD -	1534	18th May 1869	An improved mode of and means for securing panes of glass more especially designed for street lamps or lanterns.
KEIGHLEY, GEORGE - -	1146	14th April 1869	Velocipedes.
KELLBERG, JOHN WILLIAM -	1831	15th June 1869	Machinery and apparatus for letter printing. (Patented by Frederick Collier Bakewell.)
KELLY, RICHARD ROPER -	1910	22nd June 1869	Improvements in supplying furnaces with coal and other fuel, and in machinery or apparatus connected therewith.
KELSEY, WILLIAM - - -	2936	9th Oct. 1869	Driving drums or pulleys and railway wheels.
KEMPE, ARTHUR - - -	2634	29th Sept. 1869	Scrays or tables applicable to gig mills, brushing mills and other like machinery.
KEMPE, WILLIAM - - -	2634	29th Sept. 1869	Scrays or tables applicable to gig mills, brushing mills and other like machinery.
KENDALL, CHARLES - - -	55	7th Jan. 1869	Apparatus and appliances for working railway breaks and for effecting communications between the guard, driver and passengers.
KENDALL, HENRY JOHN [BROUGHTON.]	762	12th March 1869	A new or improved preservative paint or composition for protecting ships' bottoms, preserving submarine wood-work and other useful purposes. (Communicated by William Babcock.)
KENDALL, WILLIAM - - -	2612	27th Sept. 1869	Furnaces.

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AND APPLICANTS FOR PATENTS OF INVENTION.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
KENDRICK, THOMAS - -	2078	10th July 1869	Certain descriptions of knobs for bedsteads, door handles and other similar purposes.
KENNEDY, JAMES - - -	2974	13th Oct. 1869	An improved sanitary composition or cement for building and ornamenting purposes.
KENNEDY, MICHAEL - -	1953	28th June 1869	Short levers weighing scales.
KENNEDY, MICHAEL - -	3219	8th Nov. 1869	Weighing machines or scales. (Patented by Joseph Converse Heywood.)
KENNEDY, SAMUEL A. - -	919	25th March 1869	A new and improved electric clock. (Patented by Henri Adrien Bonneville.)
KENNY, JAMES MC. - -	21	4th Jan. 1869	Improvements applicable to the shoes of horses and other animals.
KENT, GEORGE - - -	1398	6th May 1869	An improved refrigerator. (Communicated by Milton Alexander Hamilton.)
KENT, JOHN FREDERIC - -	1378	5th May 1869	An improved mortising, tenoning and sawing machine.
KENT, JOHN FREDERIC - -	3509	4th Dec. 1869	An improved mortising, tenoning and sawing machine.
KENWORTHY, GEORGE HENRY	3326	18th Nov. 1869	Machinery or apparatus for preparing cotton or other fibrous substances for carding.
KENYON JAMES - - -	2429	14th Aug. 1869	Apparatus for consuming smoke and saving fuel.
KENYON, ROBERT - - -	3284	12th Nov. 1869	Improvements in furnaces and in apparatus connected therewith.
KENZIE, JAMES MC. - -	2912	7th Oct. 1869	An improved method of jointing, fastening and securing rails in railway chairs.
KENZIE, JAMES MC. - -	3711	22nd Dec. 1869	Apparatus for sharpening the cutters of mowing-machines. (Communicated by Messrs. La Due, Blish and Co.)
KENZIE, THOMAS MC. - -	3711	22nd Dec. 1869	Apparatus for sharpening the cutters of mowing-machines. (Communicated by Messrs. La Due, Blish and Co.)
KENZIE, WILLIAM MC. - -	3711	22nd Dec. 1869	Apparatus for sharpening the cutters of mowing-machines. (Communicated by Messrs. La Due, Blish and Co.)
KER, MATTHEW - - -	3037	18th Oct. 1869	Hanging and drawing window and other curtains.
KERR, JOHN PINKERTON -	2838	30th Sept. 1869	Improvements in winding thread or yarn upon pirns and in apparatus therefor.
KERR, JOHN PINKERTON -	3325	18th Nov. 1869	Apparatus for winding thread or yarn upon pirns.
KERROW, JOHN BEGG MC. -	2798	27th Sept. 1869	Improved means for effecting the removal or discharge of dye-wood from hanks or yarn.
KERSHAW, BENJAMIN - -	2667	11th Sept. 1869	Construction of vessels or apparatus for preserving meat and other articles of food.
KERSHAW, HENRY - - -	3568	10th Dec. 1869	Means or apparatus employed when spinning worsted or other fibres.
KERSHAW, JOHN - - -	418	10th Feb. 1869	Manufacture of double texture cloths suitable for card cloth blankets for calico and other printers, gas bags for railways and for other purposes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
KERSHAW, JOHN - - -	2641	8th Sept. 1869	Centre rail locomotives.
KERSHAW, JOHN - - -	2792	25th Sept. 1869	Improved machinery for folding piece goods.
KETTLE, LOUIS ALEXANDER -	2693	15th Sept. 1869	A new or improved combined buckle and button hole. (Patented by George Shaw.)
KETTLE, LOUIS ALEXANDER -	2694	15th Sept. 1869	Stoves and furnaces for burning solid fuel. (Patented by George Shaw.)
KIESLING, LOUIS - - -	1911	22nd June 1869	An improved combustible compound. (Patented by William Robert Lake.)
KILNER, THOMAS HENRY -	301	30th Jan. 1869	An improved feed apparatus adapted to carding and condensing machinery.
KILPATRICK, DANIEL RIPPON	2292	29th July 1869	Application of springs to chairs, couches or other seats and beds. (Communicated by Edward H. Robinson.)
KIMBALL, HIRAM - - -	1701	2nd June 1869	A low water indicator or alarm for boilers. (Patented by Benjamin Joseph Barnard Mills.)
KIMBALL, HIRAM - - -	2346	5th Aug. 1869	Meters for measuring liquids and gases. (Patented by Benjamin Joseph Barnard Mills.)
KING, GEORGE EDWIN - -	1735	4th June 1869	An improvement in fluted, crimped and puffed fabrics adapted for use as trimmings and for similar purposes.
KING, HENRY JAMES HOGG -	184	20th Jan. 1869	Apparatus for feeding wool or other fibrous materials to carding or other machines.
KING, HENRY JAMES HOGG -	2491	20th Aug. 1869	Apparatus for measuring, indicating and regulating the flow or passage of liquids.
KING, HENRY JAMES HOGG -	3186	3rd Nov. 1869	Apparatus for measuring, indicating and regulating the flow or passage of liquids.
KING, HENRY JAMES HOGG -	3402	25th Nov. 1869	Apparatus for feeding wool, cotton or other fibrous materials to carding or other machines.
KING, HENRY JAMES HOGG -	3600	13th Dec. 1869	Apparatus for feeding wool, cotton or other fibrous materials to carding or other machines.
KING, JOHN - - - -	3313	17th Nov. 1869	An improvement in apparatus for combing wool or other fibres.
KING, JOHN - - - -	3511	4th Dec. 1869	Breakwaters. (Patented by Stephen Alley.)
KING, JOSEPH - - - -	1680	31st May 1869	An improved cinder sifter.
KING, ROBERT - - - -	2534	26th Aug. 1869	Lighting and extinguishing gas lamps.
KING, THOMAS - - - -	2633	7th Sept. 1869	Piano-fortes.
KINGSLAND, JACOB DAVY -	2824	28th Sept. 1869	Improvements in the manufacture of horse-shoe nails and in the apparatus to be employed therein. (Patented by Alfred Vincent Newton.)
KINSEY, HENRY - - - -	1747	5th June 1869	Improvements in steam and other boilers and in surface condensers.
KINSEY, HENRY - - - -	3673	18th Dec. 1869	Improvements in the manufacture of surface condensers, hot water apparatus, and in steam-boilers and water heaters for the same.
KIPPAX, JAMES - - - -	1478	14th May 1869	Method of weaving counterpanes or quilts.
KIPPAX, JAMES - - - -	3042	19th Oct. 1869	Improvements in the method of weaving counterpanes or quilts, applicable in part to the weaving of some other goods or articles.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
KIPPAX, JOHN - - -	1478	14th May 1869	Method of weaving counterpanes or quilts.
KIPPAX, JOHN - - -	3042	19th Oct. 1869	Improvements in the method of weaving counterpanes or quilts, applicable in part to the weaving of some other goods or articles.
KIPPING, JAMES STANLEY -	2295	30th July 1869	An improved method of fixing colors on textile fabrics.
KIRBY, JOHN - - -	116	14th Jan. 1869	Moveable grates for steam boiler or other furnaces.
KIRCHER, JULES - - -	2890	5th Oct. 1869	An improved black printing ink capable of being removed from paper.
KIRCHER, JULES - - -	2891	5th Oct. 1869	An improved mode of removing print from paper.
KIRDY, JOHN GREGORY M ^c -	1756	7th June 1869	An improved stile or biped pass for parks or other enclosures.
KIRK, ALEXANDER CARNEGIE	920	27th March 1869	Improvements in cooling liquids and in apparatus therefor.
KIRK, ALEXANDER CARNEGIE	2211	21st July 1869	Apparatus for abstracting heat.
KIRK, ALEXANDER CARNEGIE	2950	11th Oct. 1869	Treating mineral oils.
KIRK, ALEXANDER CARNEGIE	3224	9th Nov. 1869	Improvements in or connected with retorts.
KIRK, JAMES - - -	1861	16th June 1869	Machinery used for felting or planking the bodies of hats or bonnets.
KIRK, JOHN - - -	1117	12th April 1869	Cabs, carriages or other vehicles.
KIRK, PETER - - -	1668	31st May 1869	Improvements in puddling furnaces and in other furnaces employed in the manufacture of iron and steel.
KITSON, JOHN HAWTHORN -	116	14th Jan. 1869	Moveable grates for steam-boiler or other furnaces.
KITTOE, GEORGE DOMINICUS -	107	14th Jan. 1869	Valves.
KLEIN, EUGENE - - -	2456	17th Aug. 1869	An improved galvanoplastic process for depositing iron applicable for the reproduction of engraved surfaces, stereotyping and other useful and ornamental purposes. (Patented by Maurice Herrmann Jacobi.)
KLEMM, CHARLES THEODORE	3621	15th Dec. 1869	Kilns or apparatus for the manufacture of malt. (Patented by Edward Moss.)
KLOEN, WILLIAM - - -	2993	14th Oct. 1869	A new or improved method of water colour printing.
KNEWSTUB, FABIAN JAMES -	415	10th Feb. 1869	Improvements in and addition to locks or fastenings for bags, writing, dressing and other cases.
KNEWSTUB, FABIAN JAMES -	491	18th Feb. 1869	Fittings to be employed in despatch, writing and other cases, boxes, drawers or receptacles, which fittings can also be made to be used separately.
KNEWSTUB, FABIAN JAMES -	1186	17th April 1869	Process of printing.
KNIFFEN MOWING MACHINE [COMPANY.]	1634	27th May 1869	Mowing and reaping machines. (Patented by Peter Whiteside.)
KNIGHT, BROTHERS - - -	472	16th Feb. 1869	Brick-making machinery. (Patented by Benjamin Joseph Barnard Mills.)
KNIGHT, HENRY - - -	671	5th March 1869	Instruments or apparatus for clipping horses and other animals.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
KNIGHT, HENRY - - -	2217	21st July 1869	Instruments or apparatus for clipping horses and other animals.
KNIGHT, HENRY EDMUND -	2042	7th July 1869	Construction of busks for stays, bodices, gaiters and other articles of wearing-apparel.
KNIGHT, JOHN - - -	2027	5th July 1869	Four-wheeled vehicles.
KNIGHTON, GEORGE - -	3235	10th Nov. 1869	Core barrels for making pipes and hollow castings.
KNOOP, CHARLES HENRY -	2737	20th Sept. 1869	Improved machinery for the manufacture of tape trimmings. (Patented by William Edward Newton.)
KNOWLES, ANDREW - -	3135	29th Oct. 1869	Machinery and apparatus for cutting and getting coal.
KNOWLES, FRANCIS CHARLES -	1409	8th May 1869	A new or improved method of purifying and converting cast iron into malleable iron or into steel, and for the making and use of materials and appliances for the same.
KNOWLES, JOHN - - -	76	11th Jan. 1869	Method of weaving terry, looped or piled counterpane, toilet covers and other similar fabrics.
KNOWLES, JOHN - - -	3512	4th Dec. 1869	Rotary engines to be worked by steam, air, water or other fluid, which improvements are also applicable for raising fluids.
KNOWLES, ROBERT - - -	1972	30th June 1869	Manufacture and ornamentation of ladies' night-dress cases, bed-head bags, watch pockets and other similar articles.
KNOWLES, ROBERT WALMSLEY	347	4th Feb. 1869	Machinery or apparatus for stretching, "swissing" and finishing muslins or other similar fabrics.
KNOWLES, THOMAS - - -	1699	2nd June 1869	Improvements in the manufacture of printing surfaces, parts of which improvements are also applicable to the securing of metals to the surfaces upon which they have been deposited from solutions.
KNOWLES, THOMAS - - -	1841	15th June 1869	"Doubling frames."
KNOWLES, THOMAS - - -	2060	8th July 1869	Wrought-iron permanent way for railways.
KNOWLES, THOMAS - - -	3326	18th Nov. 1869	Machinery or apparatus for preparing cotton or other fibrous substances for carding.
KNOWLES, WILLIAM - - -	734	10th March 1869	Mules for spinning and doubling.
KNOWLES, WILLIAM JOHN -	3416	25th Nov. 1869	Machinery for washing, wringing, mangling, churning and mixing fluids.
KNUDSEN, JOCHUM - - -	346	4th Feb. 1869	Mode of utilizing the motion of the waves relatively to that produced by them on the ship, for the propelling of the same or for other useful purposes. (Patented by Peter Jensen.)
KOCH, PHILIPPE - - -	3287	15th Nov. 1869	Improved modes of fastening the knobs or handles of locks and latches of doors and gates, and for other similar purposes. (Communicated by Charles Bristol.)
KOCH, PHILIPPE - - -	3593	13th Dec. 1869	Improved machinery for manufacturing untapped nuts intended for screw bolts.
KODL, JOSEPH - - -	1962	29th June 1869	Improvements in the manufacture of sugar and in apparatus employed therein. (Patented by Edward Thomas Hughes.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
KRECHLIN, JULES - - -	2820	28th Sept. 1869	Looms for weaving. (Patented by John Bullough.)
KOHLSTADT, FERDINAND, [junior.]	1911	22nd June 1869	An improved combustible compound. (Patented by William Robert Lake.)
KOHN, FERDINAND - -	1498	17th May 1869	Mode of extracting the juice from sugar cane, beetroot and other plants. (Communicated by Julius Robert.)
KOLB, MATHIAS - - -	3545	8th Dec. 1869	An improvement in screw propellers for the purpose of reducing the slip of the same.
KÖRTING, ERNST - - -	3323	18th Nov. 1869	Apparatus for feeding boilers and for raising and forcing fluids generally.
KRAG, OLE HERMAN JOHANNES	2711	17th Sept. 1869	Fire-arms.
KRAUS, KAJETAN - - -	2642	8th Sept. 1869	An improved watch protector.
KROLL, JEAN BAPTISTE - -	1307	28th April 1869	Percolators for infusing tea, coffee and other similar beverages.
KUKATZKAY'S, SEYSS and [COMPANY.]	3676	18th Dec. 1869	An improved instrument for levelling and for measuring angles. (Patented by William Lloyd Wise.)
KURTZ, PHILIPP JACOB - -	2743	21st Sept. 1869	Chaff cutters.
KYLE, DAVID DUNNE - -	365	5th Feb. 1869	Means of and apparatus for communicating or signalling in and with railway trains.

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LA DUE - - - - -	3711	22nd Dec. 1869	Apparatus for sharpening the cutters of mowing-machines. (Patented by William McKenzie, Thomas McKenzie and James McKenzie.)
LA MARTELIÈRE, ALFRED [CAMILLE DE.]	3080	23rd Oct. 1869	A new or improved manufacture of metallic tiles or slates for roofing. (Patented by Charles Denton Abel.)
LA RUE, JULES MARIE DE -	425	10th Feb. 1869	An improved water velocipede. (Patented by William Robert Lake.)
LA RUE, WILLIAM FREDERICK [DE.]	1462	12th May 1869	An improved method of obtaining a water mark on paper and in apparatus employed therein.
LABADIE, LAURENT - -	770	12th March 1869	An improved magnetic regulator applicable to the compasses of iron ships.
LACANAU, ALEXIS - - -	2721	18th Sept. 1869	An improved thermo-electric alarm.
LADELLE, WILLIAM WYKES -	540	22nd Feb. 1869	An improved method of and apparatus for preparing esparto, straw, rags or other materials for the manufacture of paper.
LADELLE, WILLIAM WYKES -	3094	25th Oct. 1869	Bleaching.
LADLEY, JOSEPH - - -	618	1st March 1869	Machinery or apparatus for spinning and twisting wool or other fibrous substances.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LAFARGUE, ALPHONSE - -	1809	12th June 1869	Apparatus for weighing and registering.
LAFFERTY, HUGH WALBRIDGE	235	25th Jan. 1869	New and useful improvements in centrifugal machines for draining sugars and other substances, and in the manner of their support and the means of communicating motion thereto.
LAFFERTY, ROBERT - -	235	25th Jan. 1869	New and useful improvements in centrifugal machines for draining sugars and other substances, and in the manner of their support and the means of communicating motion thereto.
LAGILLARDAIE, EDOUARD DE -	3160	1st Nov. 1869	Construction of suction siphons for raising liquids and producing condensations and evaporations in vacuum.
LAINÉ, EDOUARD - - -	2033	6th July 1869	Apparatus for lubricating the cylinders of steam-engines. (Patented by William Lloyd Wise.)
LAING, WILLIAM - - -	2236	22nd July 1869	Improvements in washing-machines, which improvements are also applicable to churns.
LAIRE, GEORGES ERNEST [CAMILLE DE.]	3675	18th Dec. 1869	Treatment of aromatic secondary monamines for obtaining coloring matter. (Patented by George Tomlinson Bousfield.)
LAKE, WILLIAM ROBERT -	105	13th Jan. 1869	An improved method of and devices for uniting the ends of pipes or tubes. (Communicated by Augustus Weyermann.)
LAKE, WILLIAM ROBERT -	150	16th Jan. 1869	Manufacture of figured shawls and other woven fabrics. (Communicated by Etienne Rivoiron.)
LAKE, WILLIAM ROBERT -	161	18th Jan. 1869	Propelling machinery for canal boats and other vessels. (Communicated by Frederick R. Pike.)
LAKE, WILLIAM ROBERT -	175	19th Jan. 1869	Wheels for railway carriages, locomotives and other vehicles. (Communicated by John Raddin.)
LAKE, WILLIAM ROBERT -	199	21st Jan. 1869	An improved apparatus for shearing animals and skins. (Communicated by Edwards Henry Rawlings.)
LAKE, WILLIAM ROBERT -	243	26th Jan. 1869	Ventilating apparatus. (Communicated by Henry Howard.)
LAKE, WILLIAM ROBERT -	370	6th Feb. 1869	Puddling and other furnaces employed in the manufacture of wrought iron and steel. (Communicated by Samuel Danks.)
LAKE, WILLIAM ROBERT -	386	8th Feb. 1869	An improved lining for puddling and other furnaces. (Communicated by Samuel Danks.)
LAKE, WILLIAM ROBERT -	387	8th Feb. 1869	Knitting machines. (Communicated by Frederick Gardner.)
LAKE, WILLIAM ROBERT -	425	10th Feb. 1869	An improved water velocipede. (Communicated by Jules Marie de la Rue.)
LAKE, WILLIAM ROBERT -	458	15th Feb. 1869	Mechanism for changing shuttles and shuttle boxes in looms for weaving. (Communicated by James Brierly and James Brierly.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LAKE, WILLIAM ROBERT -	488	17th Feb. 1869	An improved method of obtaining benzole and its homologous substances from coal gas. (Communicated by Henry Caro, August Clemm, Charles Clemm and Frederic Engelhorn.)
LAKE, WILLIAM ROBERT -	521	19th Feb. 1869	An improved mode of and apparatus for making and preserving ice for cooling liquids and for preserving the same and other substances. (Communicated by Léon Dominique Vinot.)
LAKE, WILLIAM ROBERT -	544	22nd Feb. 1869	Heating apparatus for locomotive engines. (Communicated by William Hohback.)
LAKE, WILLIAM ROBERT -	595	26th Feb. 1869	An improved method of constructing ships and other vessels for carrying liquid cargoes. (Communicated by William Charlton Hibbard.)
LAKE, WILLIAM ROBERT -	625	1st March 1869	An improved lawn mowing-machine. (Communicated by Samuel Coit.)
LAKE, WILLIAM ROBERT -	707	9th March 1869	Improved apparatus for converting a reciprocating motion into a rotary motion. (Communicated by Charles Lowrey Spencer.)
LAKE, WILLIAM ROBERT -	709	9th March 1869	Improvements in mechanism for operating tilt hammers and in the mode of applying power to the same. (Communicated by Treat Timothy Prosser.)
LAKE, WILLIAM ROBERT -	718	9th March 1869	Improvements in turbine wheels and in apparatus connected with the same. (Communicated by William Foss and John Wesley Bookwalter.)
LAKE, WILLIAM ROBERT -	730	10th March 1869	Devices for rendering gas-burners self lighting. (Communicated by Samuel Gardiner, junior.)
LAKE, WILLIAM ROBERT -	759	11th March 1869	Machinery for spinning and twisting fibrous materials. (Communicated by Thomas Mayor.)
LAKE, WILLIAM ROBERT -	783	13th March 1869	Breech-loading fire-arms. (Communicated by Théophile Locher.)
LAKE, WILLIAM ROBERT -	794	15th March 1869	Steam vessels for ocean and river navigation. (Communicated by Seth Wyle Wilson.)
LAKE, WILLIAM ROBERT -	795	15th March 1869	An improved multiple drilling machine. (Communicated by Daniel Rice Pratt.)
LAKE, WILLIAM ROBERT -	828	18th March 1869	Anchors. (Communicated by James Durell Greene.)
LAKE, WILLIAM ROBERT -	844	19th March 1869	Waterproof overshoes. (Communicated by Augustus Osborn Bourn.)
LAKE, WILLIAM ROBERT -	859	22nd March 1869	An improved hay-tedding machine. (Communicated by Lyman Hall Tasker.)
LAKE, WILLIAM ROBERT -	804	25th March 1869	Machinery for folding paper. (Communicated by Samuel Colwell Forsaith.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LAKE, WILLIAM ROBERT -	915	25th March 1869	Machinery for pressing oil, tobacco, cotton and other materials. (Communicated by Enoch Thomas, Robert Culton Walker and Samuel Robert Hendsen.)
LAKE, WILLIAM ROBERT -	917	25th March 1869	An improved electro-magnetic machine. (Communicated by Dieudonné François Joseph Lontin and Eardley Louis Charles d'Ivernois.)
LAKE, WILLIAM ROBERT -	939	29th March 1869	Manufacture of soda and potash. (Communicated by François Marie Backet.)
LAKE, WILLIAM ROBERT -	940	29th March 1869	An improved blowing apparatus. (Communicated by Benjamin Franklin Sturtevant.)
LAKE, WILLIAM ROBERT -	941	29th March 1869	Improvements in the manufacture of horse-shoe nails and in machinery employed in such manufacture. (Communicated by Arlon Man Polsey and Silas Edwin Chase.)
LAKE, WILLIAM ROBERT -	1050	7th April 1869	Permanent way of railways. (Communicated by Daniel Rice Pratt.)
LAKE, WILLIAM ROBERT -	1090	9th April 1869	Improvements in paper, woven fabrics and other porous substances, and in the treatment thereof whereby the same are rendered waterproof. (Communicated by Charles Toppan.)
LAKE, WILLIAM ROBERT -	1120	12th April 1869	An improved railway. (Communicated by Rustem Bey.)
LAKE, WILLIAM ROBERT -	1213	20th April 1869	An improved toy. (Communicated by Narcisse Rabouin.)
LAKE, WILLIAM ROBERT -	1215	20th April 1869	Lamps. (Communicated by John Mansfield Perkins and Mark Wiggins House.)
LAKE, WILLIAM ROBERT -	1245	22nd April 1869	Locks. (Communicated by Nicolas Petre.)
LAKE, WILLIAM ROBERT -	1246	22nd April 1869	Apparatus for effecting communication between the passengers and guard, or between the guard and driver of a railway train. (Communicated by Jean Corre.)
LAKE, WILLIAM ROBERT -	1279	24th April 1869	Construction of axle-boxes for railway carriages and other vehicles. (Communicated by Frederick Collier Christy.)
LAKE, WILLIAM ROBERT -	1293	27th April 1869	Locks. (Communicated by James Sargent.)
LAKE, WILLIAM ROBERT -	1321	28th April 1869	Improvements in apparatus for generating and condensing steam, and in furnaces for steam generators and for other purposes. (Communicated by Treat Timothy Prosser.)
LAKE, WILLIAM ROBERT -	1430	10th May 1869	Bronze ordnance. (Communicated by Samuel Buel Dean.)
LAKE, WILLIAM ROBERT -	1440	11th May 1869	An improved detergent or saponaceous compound. (Communicated by William Henry Newton.)
LAKE, WILLIAM ROBERT -	1510	17th May 1869	Revolving fire-arms. (Communicated by Messrs. Smith and Wesson.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LAKE, WILLIAM ROBERT	- 1511	17th May 1869	Apparatus for drying sugar. (Communicated by Alexander Herbst.)
LAKE, WILLIAM ROBERT	- 1512	17th May 1869	Machinery for forming the threads of metal screws. (Communicated by Treat Timothy Prosser.)
LAKE, WILLIAM ROBERT	- 1536	18th May 1869	Machines for manufacturing capsules for closing bottles, jars and other vessels. (Communicated by Bertrand Hippolyte Tardif.)
LAKE, WILLIAM ROBERT	- 1539	19th May 1869	An improved process for obtaining gelatine and other products from animal substances. (Communicated by David Kitchell Tuttle, Orazio Lugo, William John Hooper and Theodore Hooper.)
LAKE, WILLIAM ROBERT	- 1567	20th May 1869	Boat-detaching apparatus. (Communicated by James Foster, junior, Noah Hand and Charles Sloan.)
LAKE, WILLIAM ROBERT	- 1577	21st May 1869	An improved machine for shearing, punching, bending and otherwise working metal and metallic articles. (Communicated by Edward Charles Bowen.)
LAKE, WILLIAM ROBERT	- 1646	28th May 1869	Brushes for cleaning the tubes of steam-boilers. (Communicated by Patrick Henry Coyle and Edwin Augustus Perry.)
LAKE, WILLIAM ROBERT	- 1647	28th May 1869	Machinery employed in the manufacture of bolts and nuts. (Communicated by Orin Clark Burdick.)
LAKE, WILLIAM ROBERT	- 1682	31st May 1869	Mechanism for propelling and guiding vehicles, and for driving machinery by muscular power. (Communicated by William Smith Hall.)
LAKE, WILLIAM ROBERT	- 1714	3rd June 1869	Apparatus for generating steam and for heating and cooling fluids. (Communicated by Antoine Romain Thirion.)
LAKE, WILLIAM ROBERT	- 1752	5th June 1869	Reins for controlling saddle horses. (Communicated by Jean Sala.)
LAKE, WILLIAM ROBERT	- 1797	10th June 1869	An improved covering for floors and other surfaces. (Communicated by Shadrach Houghton Pearce.)
LAKE, WILLIAM ROBERT	- 1814	14th June 1869	Sewing-machines chiefly designed for sewing the outer soles to the welts of boots and shoes. (Communicated by Daniel Mills.)
LAKE, WILLIAM ROBERT	- 1823	14th June 1869	Machines for sewing boots and shoes. (Communicated by Daniel Mills.)
LAKE, WILLIAM ROBERT	- 1849	15th June 1869	An improved mode of and machinery for producing a polished or enamelled surface upon sheet iron. (Communicated by George Weeden Francis, Edwin Garfield, Jeremy Wells Bliss and George Wells Williams.)
LAKE, WILLIAM ROBERT	- 1860	16th June 1869	A new method of and apparatus for counting the stitches made by a sewing-machine. (Communicated by Gordon McKay.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LAKE, WILLIAM ROBERT -	1868	17th June 1869	An improved process for preparing sulphates and obtaining fine silver therefrom. (Communicated by Frederick Gutzkow.)
LAKE, WILLIAM ROBERT -	1869	17th June 1869	An improved culinary utensil to be used on stoves or ranges for broiling, toasting, baking and other analogous purposes. (Communicated by Sylvester Bowers.)
LAKE, WILLIAM ROBERT -	1879	18th June 1869	Permanent way of railways. (Communicated by Benjamin Robinson.)
LAKE, WILLIAM ROBERT -	1899	21st June 1869	Improvements in blowing and pumping engines, parts of which improvements are applicable to other direct-acting steam-engines. (Communicated by Adam Scott Cameron.)
LAKE, WILLIAM ROBERT -	1900	21st June 1869	Carriage wheels. (Communicated by Elbridge Gerry Woodside.)
LAKE, WILLIAM ROBERT -	1911	22nd June 1869	An improved combustible compound. (Communicated by Joseph Philipps, Louis Kiesling and Ferdinand Kohlstadt, junior.)
LAKE, WILLIAM ROBERT -	1957	28th June 1869	An improved method of and apparatus for rendering and refining lard, tallow and other fatty and oleaginous matter. (Communicated by Charles James Everett.)
LAKE, WILLIAM ROBERT -	2002	2nd July 1869	An improved combined travelling bag and chair. (Communicated by Léandre Quetineau, Emmanuel Adolphe Halphen, Charles Jacob Halphen and Ernest Halphen.)
LAKE, WILLIAM ROBERT -	2024	5th July 1869	Water meters. (Communicated by Messrs. Pratt, Whitney and Company.)
LAKE, WILLIAM ROBERT -	2053	7th July 1869	An improved method of and apparatus for removing artificial coatings from metallic surfaces. (Communicated by Byron Horatio Harmon and Philip Henry Rose.)
LAKE, WILLIAM ROBERT -	2087	10th July 1869	An improved method of producing marquetry and other divers-coloured wood-work. (Communicated by Joseph Dill.)
LAKE, WILLIAM ROBERT -	2088	10th July 1869	An improved machine for manufacturing horse-shoes. (Communicated by Ozial Adnah Howe.)
LAKE, WILLIAM ROBERT -	2089	10th July 1869	An improved sofa-bedstead. (Communicated by Henry F. Hover.)
LAKE, WILLIAM ROBERT -	2090	10th July 1869	An improved machine for sawing, grooving, moulding, dovetailing and otherwise working wood. (Communicated by Joseph Dill.)
LAKE, WILLIAM ROBERT -	2102	12th July 1869	Manufacture of white lead. (Communicated by George Thompson Lewis.)
LAKE, WILLIAM ROBERT -	2147	16th July 1869	Propelling machinery for canal boats and other vessels. (Communicated by Frederick R. Pike.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LAKE, WILLIAM ROBERT	- 2204	21st July 1869	Marline spikes. (Communicated by Calvin Torrey.)
LAKE, WILLIAM ROBERT	- 2235	22nd July 1869	Telegraph-wire insulators. (Communicated by William Edgar Simonds.)
LAKE, WILLIAM ROBERT	- 2279	27th July 1869	An improved apparatus for shearing or clipping animals and skins. (Communicated by Edwards Henry Rawlings.)
LAKE, WILLIAM ROBERT	- 2297	30th July 1869	Block-calendars and other similar articles. (Communicated by Madame Adrien Maurin and Gustave Toiray.)
LAKE, WILLIAM ROBERT	- 2311	31st July 1869	Direct-acting steam-engines. (Communicated by John Storer.)
LAKE, WILLIAM ROBERT	- 2354	6th Aug. 1869	Devices for holding the chimneys of gas-burners and other lighting apparatus. (Communicated by Elliott Perry Gleason.)
LAKE, WILLIAM ROBERT	- 2355	6th Aug. 1869	Expanding drills for boring rocks. (Communicated by Elliott Perry Gleason.)
LAKE, WILLIAM ROBERT	- 2367	7th Aug. 1869	An improved machine for sowing and covering seed and for cultivating land. (Communicated by Amos Newell.)
LAKE, WILLIAM ROBERT	- 2368	7th Aug. 1869	Machinery for combing fibrous materials. (Communicated by Hezekiah Conant.)
LAKE, WILLIAM ROBERT	- 2382	9th Aug. 1869	An improved apparatus for adding numbers. (Communicated by Charles Henry Webb.)
LAKE, WILLIAM ROBERT	- 2416	12th Aug. 1869	Machinery for charging gas retorts. (Communicated by N. O. J. Tisdale.)
LAKE, WILLIAM ROBERT	- 2459	17th Aug. 1869	Pen-holders. (Communicated by Louis Dezarnaud.)
LAKE, WILLIAM ROBERT	- 2460	17th Aug. 1869	An improved machine for making sewing needles. (Communicated by Francis William Mallett.)
LAKE, WILLIAM ROBERT	- 2486	19th Aug. 1869	Screw propellers. (Communicated by Frederick Wittram.)
LAKE, WILLIAM ROBERT	- 2508	23rd Aug. 1869	Apparatus for raising and forcing water and for obtaining motive-power. (Communicated by William Edgar Prall.)
LAKE, WILLIAM ROBERT	- 2509	23rd Aug. 1869	Posts or standards for gas lamps. (Communicated by John W. Graham.)
LAKE, WILLIAM ROBERT	- 2528	25th Aug. 1869	Braiding or platting machines. (Communicated by James Douglas Butler.)
LAKE, WILLIAM ROBERT	- 2537	26th Aug. 1869	Machinery for carding and spinning fibrous materials. (Communicated by John Goulding.)
LAKE, WILLIAM ROBERT	- 2547	27th Aug. 1869	An improved method of and apparatus for rendering and refining lard, tallow and other fatty and oleaginous matter. (Communicated by Charles James Everett.)
LAKE, WILLIAM ROBERT	- 2626	6th Sept. 1869	Velocipedes. (Communicated by Alphonse Philémon Adrien Barberon and Joseph Meunier.)
LAKE, WILLIAM ROBERT	- 2664	11th Sept. 1869	Apparatus for extinguishing fires. (Communicated by George F. Pinkham.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LAKE, WILLIAM ROBERT -	2725	18th Sept. 1869	An improved process for galvanizing metals. (Communicated by Victor Jean Charles Roque.)
LAKE, WILLIAM ROBERT -	2745	21st Sept. 1869	Spindles and fliers of spinning frames. (Communicated by John Goulding.)
LAKE, WILLIAM ROBERT -	2756	22nd Sept. 1869	A new method of purifying solutions of sugar and syrups, and in apparatus therefor. (Communicated by August Seyferth.)
LAKE, WILLIAM ROBERT -	2757	22nd Sept. 1869	Sewing-machine and other needles. (Communicated by Henry Josiah Griswold.)
LAKE, WILLIAM ROBERT -	2825	28th Sept. 1869	An improved method of and apparatus for preventing alteration of values in monetary instruments. (Communicated by Max Emanuel Berolzheimer.)
LAKE, WILLIAM ROBERT -	2826	28th Sept. 1869	Harvesting machines. (Communicated by Thomas Fawcett.)
LAKE, WILLIAM ROBERT -	2903	6th Oct. 1869	Permanent way of railways. (Communicated by Daniell Rice Pratt.)
LAKE, WILLIAM ROBERT -	2923	8th Oct. 1869	Pedals and damping apparatus for pianofortes and other similar instruments. (Communicated by Edward Zachariae.)
LAKE, WILLIAM ROBERT -	2956	11th Oct. 1869	Construction of land cultivators. (Communicated by David Edwards.)
LAKE, WILLIAM ROBERT -	2957	11th Oct. 1869	Permanent way of railways. (Communicated by George P. Rose.)
LAKE, WILLIAM ROBERT -	3004	15th Oct. 1869	An improved machine for drilling or boring rocks, chiefly designed for working mines, tunnels and quarries, and for submarine operations. (Communicated by James Asbury McKean.)
LAKE, WILLIAM ROBERT -	3005	15th Oct. 1869	Sewing-machines. (Communicated by Alonzo Porter.)
LAKE, WILLIAM ROBERT -	3006	15th Oct. 1869	Chain cable stoppers. (Communicated by John John Emery and Philo Thurston.)
LAKE, WILLIAM ROBERT -	3041	18th Oct. 1869	An improved nut for screw bolts. (Communicated by Daniel Rice Pratt.)
LAKE, WILLIAM ROBERT -	3067	21st Oct. 1869	Rotary blowing engines. (Communicated by Philander Higley Roots and Francis Marion Roots.)
LAKE, WILLIAM ROBERT -	3092	25th Oct. 1869	Sewing-machine needles. (Communicated by Mrs. Hannah G. Suplee.)
LAKE, WILLIAM ROBERT -	3093	25th Oct. 1869	Manufacture of dry white lead and white lead pigment from metallic lead. (Communicated by George Thompson Lewis.)
LAKE, WILLIAM ROBERT -	3118	27th Oct. 1869	Manufacture of sheet-iron. (Communicated by Silas Barker and Henry S. Pratt.)
LAKE, WILLIAM ROBERT -	3137	29th Oct. 1869	Coiled or volute springs. (Communicated by Joseph Trent.)
LAKE, WILLIAM ROBERT -	3208	5th Nov. 1869	Sewing-machine needles. (Communicated by Patrick H. Newbill.)

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AND APPLICANTS FOR PATENTS OF INVENTION.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LAKE, WILLIAM ROBERT -	3215	6th Nov. 1869	An improved mode of and devices for securing stair rods. (Communicated by Hypolite Uhry.)
LAKE, WILLIAM ROBERT -	3226	9th Nov. 1869	Machines for heckling hemp. (Communicated by George Webber.)
LAKE, WILLIAM ROBERT -	3250	11th Nov. 1869	Combination-locks. (Communicated by Archibald Burnett Vandemark.)
LAKE, WILLIAM ROBERT -	3358	20th Nov. 1869	Machinery for distributing type. (Communicated by Orren Lee Brown.)
LAKE, WILLIAM ROBERT -	3408	25th Nov. 1869	Machinery for propelling ships. (Communicated by Hugo Dullens.)
LAKE, WILLIAM ROBERT -	3456	29th Nov. 1869	Improvements in journal bearings for railway carriages and in the means for lubricating the same. (Communicated by Isaac Pennington Wendell and Stephen Paschall Morris Tasker.)
LAKE, WILLIAM ROBERT -	3518	4th Dec. 1869	Harness for draught animals. (Communicated by David Waldhauer.)
LAKE, WILLIAM ROBERT -	3527	6th Dec. 1869	Machinery for hulling grain or seed. (Communicated by John Tucker Prince.)
LAKE, WILLIAM ROBERT -	3562	9th Dec. 1869	Vices. (Communicated by John Simpson.)
LAKE, WILLIAM ROBERT -	3597	13th Dec. 1869	An improved mode of and means for preserving dead human bodies and animal carcasses. (Communicated by George Washington Scollay.)
LAKE, WILLIAM ROBERT -	3620	15th Dec. 1869	Apparatus for making and breaking electromagnetic circuits, chiefly designed for governing short or local circuits for operating signals on long telegraphic lines. (Communicated by Edward Seymour Hidden.)
LAKE, WILLIAM ROBERT -	3697	21st Dec. 1869	Improvements in the manufacture of steel and of steel bars, rails and plates, and in the furnaces and moulds employed in such manufacture. (Communicated by John Absterdam.)
LAKE, WILLIAM ROBERT -	3736	24th Dec. 1869	Manufacture of metal tubing. (Communicated by Stephen Paschall Morris Tasker.)
LAKE, WILLIAM ROBERT -	3754	28th Dec. 1869	Sectional steam-boilers. (Communicated by William Philip Abendroth, John Griffith, George William Wundram and Teile Henry Muller.)
LAKE, WILLIAM ROBERT -	3769	30th Dec. 1869	An improved apparatus for roasting iron-pyrites. (Communicated by William Helbig and Robert Hasenclever.)
LAKIN, ROBERT - - -	2270	26th July 1869	Certain improvements in carding-engines.
LAKIN, ROBERT - - -	2680	14th Sept. 1869	Machinery for preparing, spinning, twisting and doubling cotton and other fibrous materials.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LAMB, JOHN - - -	1937	25th June 1869	Bobbin frames for carpet looms.
LAMBERT, EDWARD HEWITT -	1302	27th April 1869	Boots and shoes.
LAMBIN, LEON - - -	929	27th March 1869	Breech-loading fire-arms. (Patented by Henry Haschke.)
LAMMENS, JEAN BAPTISTE -	2905	6th Oct. 1869	Rag engines for the preparation of paper pulp. (Patented by Thomas Frederick Newell.)
LAMOUREUX, CHARLES - -	1138	13th April 1869	A dental wash. (Patented by John Henry Johnson.)
LAMQUET, VICTOR - - -	1975	30th June 1869	Improvements in switches and signals and in the mode of working the same. (Patented by Robert Boyd.)
LANCASTER, CHARLES WIL- [LIAM.	462	15th Feb. 1869	Wadding for breech-loading cartridges.
LANCASTER, CHARLES WIL- [LIAM.	1479	14th May 1869	Improved apparatus for concentrating shot.
LANCASTER, WILLIAM - -	1145	14th April 1869	Improvements in looms for weaving and in apparatus used in connection therewith. (Patented by William Henry Hacking, Thomas Hacking and James Chambers.)
LANCASTER, WILLIAM - -	2716	18th Sept. 1869	Steam boilers or generators.
LANCASTER, WILLIAM - -	3301	16th Nov. 1869	Furnaces for steam-boilers and other purposes.
LANE, DENNY - - -	1931	24th June 1869	Manufacture of gas.
LANE, EDMUND - - -	2990	14th Oct. 1869	Parts of the permanent way of railways.
LANE, THOMAS - - -	1477	14th May 1869	Means for controlling the discharge of water from stand pipes, drinking fountains and ball taps or valves.
LANG, JEAN BERNARD - -	2646	8th Sept. 1869	An improved machine for cutting or dressing millstones. (Patented by Alexander Melville Clark.)
LANG, CHRISTIAN - - -	983	1st April 1869	Improvements relating to the winding mechanism of watches and clocks.
LANGER, WILLIAM - - -	972	31st March 1869	A new and improved method of and apparatus or appliances for the manufacture of cigars.
LANGHAM, JOHN - - -	1551	19th May 1869	Ash pans for fire-grates.
LANGLAIS, EUGÈNE (junior) -	1712	3rd June 1869	An improved safety bag for conveying despatches or other articles of value by sea. (Patented by Baldwin Fulford Weatherdon.)
LANGLOIS, PIERRE ADOLPHE [SIDNEY.	3494	2nd Dec. 1869	Improvements in the manufacture of sulphuric acid and in apparatus connected therewith.
LANGTREE, JOHN - - -	1807	12th June 1869	Improved apparatus or appliances to be employed for sizing and warping yarns and for weaving.
LANSING, HENRY LIVINGSTON	564	23rd Feb. 1869	Fire boxes and ash pans of locomotive engines. (Patented by Alfred Vincent Newton.)
LARKIN, HENRY - - -	1706	2nd June 1869	Improvements in the manufacture of magnesium and in the preparation of its anhydrous chloride.
LARKIN, HENRY - - -	1990	1st July 1869	Production of sodium and potassium.
LARKIN, HENRY - - -	3505	3rd Dec. 1869	Production of potassium, sodium and zinc.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LARMANJAT, JEAN - - -	1519	18th May 1869	Improvements in tramway and other locomotive engines and carriages, and in the permanent way for the same. (Patented by Alexander Melville Clark.)
LARMUTH, JAMES WILLIAM -	2201	21st July 1869	Means for connecting together the ends of the hoops or bands employed in the packing of cotton or other substance or material.
LASCELLES, CHARLES THOMAS [EVANS.]	414	10th Feb. 1869	Improvements in machine-made casks and in the machinery to be used in making such casks.
LATHAM, BALDWIN - - -	809	17th March 1869	Improvements in the means and machinery or appliances for filtering and straining liquids, especially applicable for straining sewage.
LATHAM, BALDWIN - - -	1442	11th May 1869	Improvements in ventilators for sewers, also applicable for deodorizing noxious gases arising in the processes of certain manufactures.
LAUCLAN, JOHN M ^c - - -	1147	14th April 1869	Manufacture of retorts for reburning animal charcoal for making gas and for other like uses.
LAUDER, GEORGE - - -	862	22nd March 1869	An improved machine for twisting or spinning tobacco.
LAUDER, GEORGE - - -	2961	12th Oct. 1869	Machinery for twisting or spinning tobacco.
LAUTH, CHARLES - - -	1421	10th May 1869	Dyeing and printing.
LAUTH, CHARLES - - -	2818	28th Sept. 1869	The production of a new or improved green colouring matter for dyeing and printing. (Patented by Charles Denton Abel.)
LAUWICK, HENRI AUGUSTIN [JOSEPH.]	2720	18th Sept. 1869	An improved mode of manufacturing binding tapes. (Patented by Charles Belier.)
LAVARY, BERNARD - - -	3106	26th Oct. 1869	Machinery for manufacturing brushes. (Patented by Joseph Sheldon.)
LAVATER, MANUEL LEOPOLD [JONAS.]	1157	14th April 1869	Improvements in the manufacture of india-rubber nipples for feeding bottles and in the means employed therefor. (Patented by Alexander Melville Clark.)
LAW, HENRY - - - -	245	26th Jan. 1869	Apparatus for connecting soft metal and other pipes, and for attaching cocks and other fittings thereto.
LAW, JOHN - - - -	2620	6th Sept. 1869	Construction of doors and similar articles. (Patented by Edward Thomas Hughes.)
LAW, RICHARD - - -	645	3rd March 1869	Warping by warping mills.
LAW, RICHARD - - -	1745	5th June 1869	Improvements in or applicable to throstle spinning and doubling frames and machines of like character.
LAWRENCE, GEORGE WASH- [INGTON.]	2005	2nd July 1869	Improvements in apparatus for preparing flax, hemp and other fibres, and converting the same into slivers. (Patented by Alfred Vincent Newton.)
LAWRENCE, HENRY, senior -	2005	2nd July 1869	Improvements in apparatus for preparing flax, hemp and other fibres, and converting the same into slivers. (Patented by Alfred Vincent Newton.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LAWRENCE, HENRY, junior -	2005	2nd July 1869	Improvements in apparatus for preparing flax, hemp and other fibres, and converting the same into slivers. (Patented by Alfred Vincent Newton.)
LAWRENCE, JAMES - - -	2005	2nd July 1869	Improvements in apparatus for preparing flax, hemp and other fibres, and converting the same into slivers. (Patented by Alfred Vincent Newton.)
LAWRENCE, NEWTON - - -	1579	21st May 1869	Improvements in lighting cigars and an improved composition for that purpose.
LAWRENCE, SEABURY - - -	2005	2nd July 1869	Improvements in apparatus for preparing flax, hemp and other fibres, and converting the same into slivers. (Patented by Alfred Vincent Newton.)
LAWRENCE, WILLIAM - - -	2005	2nd July 1869	Improvements in apparatus for preparing flax, hemp and other fibres, and converting the same into slivers. (Patented by Alfred Vincent Newton.)
LAWSON, JOHN - - -	2449	16th Aug. 1869	Improvements in spinning flax, hemp, jute and tow, and in machinery employed for these purposes.
LAWSON, THOMAS - - -	1686	1st June 1869	Improvements in the manufacture of felted fabrics and in machinery employed therein.
LAYCOCK, WILLIAM SAMUEL -	2584	1st Sept. 1869	Weaving certain kinds of fabrics.
LE BARON, GEORGES - - -	622	1st March 1869	Improvements in breech-loading fire-arms and in cartridges. (Patented by William Edward Gedge.)
LE COMTE, JOSEPH - - -	451	13th Feb. 1869	Method of and apparatus for constructing and forming metallic joints or seams of tin or other sheet metal. (Patented by Edward Griffith Brewer.)
LE GUAY, LOUIS GILBERT -	2410	12th Aug. 1869	An improved construction of submarine and other tunnels.
LE PELLETIER, EDOUARD -	3317	17th Nov. 1869	Improvements in spinning looms and in the spindles employed therein.
LE QUESNE, — - - -	1785	9th June 1869	Improvements in the manufacture of artificial fuel and in apparatus for the purpose. (Patented by William Lloyd Wise.)
LEA, CHARLES HENRY - - -	121	15th Jan. 1869	Apparatus for opening, closing and locking railway level crossing or other gates, which apparatus acts simultaneously on near or distant railway signals and partly controls the working of the crossing signals, also improved apparatus for independently actuating a semaphore signal (or signals) placed at the crossing and partly controlling the working of the opening and closing apparatus, also improved apparatus used in connection with the above for locking the gates when closed, and improved means for raising or lowering such gates when necessary.
LEA, HENRY - - - -	1477	14th May 1869	Means for controlling the discharge of water from stand-pipes, drinking fountains and ball taps or valves.
LEACH, JOHN - - - -	547	22nd Feb. 1869	Machinery or apparatus for winding slivers or laps of wool, flax, cotton or other fibrous materials.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LEACH, THOMAS - - -	547	22nd Feb. 1869	Machinery or apparatus for winding slivers or laps of wool, flax, cotton or other fibrous materials.
LEACH, THOMAS - - -	2353	6th Aug. 1869	An improved composition for coating the bottoms of iron ships and other navigable vessels and marine works, to preserve the same and prevent the adhesion of animal and vegetable matter thereto.
LEACHMAN, WILLIAM BRAD- [SHAW.	1750	5th June 1869	Improvements in boilers for generating steam and in apparatus for warming buildings and for other purposes.
LEACHMAN, WILLIAM BRAD- [SHAW.	2585	1st Sept. 1869	Machinery or apparatus for pressing woollen and other woven or felted fabrics.
LEACHMAN, WILLIAM BRAD- [SHAW.	3012	15th Oct. 1869	Hydraulic apparatus for raising and forcing water.
LEAN, WALTER MAC - -	277	29th Jan. 1869	Improvements in printing and in the machinery or apparatus employed therefor.
LEAN, WALTER MAC - -	3500	3rd Dec. 1869	Improvements in printing, lithographing and zincographing, and in the means or apparatus employed therefor.
LEBRUN, ADRIENNE - -	3662	18th Dec. 1869	An improved system of pessary. (Patented by William Edward Gedge.)
LEBRUN, CELINA - - -	3662	18th Dec. 1869	An improved system of pessary. (Patented by William Edward Gedge.)
LECLÈRE, MAXIME - - -	87	12th Jan. 1869	An improvement in power looms. (Patented by William Edward Gedge.)
LECOULTRE, FRANÇOIS [CHARLES.	1941	26th June 1869	An improved method of changing the barrels of musical boxes.
LEDGER, HENRY JAMES - -	592	26th Feb. 1869	Improvements in communication and signalling between passengers, guards and engine drivers on railways, and in apparatus therefor.
LEE, HENRY - - - -	1211	20th April 1869	Certain improvements in looms for weaving.
LEE, HENRY - - - -	3239	10th Nov. 1869	Looms for weaving.
LEE, JOSEPH CALDWELL -	982	1st April 1869	Certain methods of collecting excreta and of treating the same in order to render them comparatively innocuous and to obtain an useful product or useful products therefrom.
LEE, THOMAS HENRY - -	700	8th March 1869	Manufacture of paper-hangings.
LEECHMAN, JOHN - - -	1140	13th April 1869	Steam-engines. (Communicated by William Carey Leechman.)
LEECHMAN, WILLIAM CAREY	1140	13th April 1869	Steam-engines. (Patented by John Leechman.)
LEEMING, JAMES - - -	2130	15th July 1869	Looms for weaving.
LEEMING, JOHN - - -	2130	15th July 1869	Looms for weaving.
LEETCH, JAMES - - -	2124	14th July 1869	An improved self-adjusting spring-stopper for closing the mouth-piece of speaking tubes and bottles, and for other like purposes.
LEETCH, JAMES - - -	2125	14th July 1869	Apparatus for effecting communication between the different parts of a railway train in motion.
LEFEBVRE, JEAN BAPTISTE -	3693	21st Dec. 1869	Improved machinery for shearing and cleansing woven fabrics. (Patented by William Edward Gedge.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LEFÈVRE, — - -	1848	15th June 1869	Harmoniums. (Patented by Stefano Ventura Fontana.)
LEFTWICH, WILLIAM - -	2173	19th July 1869	Construction of velocipedes.
LEGG, ROBERT - - -	68	9th Jan. 1869	Application of steam as a motive-power.
LEGG, ROBERT - - -	1175	16th April 1869	Further improvements in machinery for spinning or twisting and winding tobacco.
LEGRAND, ETIENNE PAUL -	3633	15th Dec. 1869	Means or apparatus for reducing friction. (Patented by John Henry Johnson.)
LEGRAND, PIERRE - - -	2287	29th July 1869	Weaving looms. (Patented by Henri Adrien Bonneville.)
LEGRAND, PIERRE - - -	2288	29th July 1869	Improvements in weaving looms and in their shuttle boxes. (Patented by Henri Adrien Bonneville.)
LEGRAS, LOUIS NAPOLEON -	469	16th Feb. 1869	Improvements in the preservation and disinfection of animal and other substances, and in the apparatus employed therein.
LEHMANN, ALEXANDRE - -	2530	25th Aug. 1869	A novel process of manufacturing yeast or artificial ferment.
LEIGH, THOMAS JOSEPH -	2450	17th Aug. 1869	Furnaces.
LEJEUNE, FELIX - - -	1827	15th June 1869	Weighing machines.
LEMAISTRE, EDMOND - -	1066	8th April 1869	An improved composition for joining leather and rendering it impermeable, more particularly in its application to driving belts, and in certain improvements in the pulleys for such belts. (Patented by Alexander Horace Brandon.)
LEMERCIER, JACQUES EUGÈNE	2479	19th Aug. 1869	Machinery for the manufacture of coverings for the feet, together with apparatus and instruments connected therewith.
LENNAN, MALCOLM MAC -	522	19th Feb. 1869	Permanent way of railways.
LEOD, MURDOCH MC - -	952	30th March 1869	Improvements in railways and in the mode of working same.
LÉON, EMMANUEL BARTELEMY [DE.	2909	6th Oct. 1869	Printing without heat upon wood used for cases, bars or heads of casks and packages of all kinds, any mark, countermark, inscription or drawing in relief, in sunken or in surface impression in one or several varied colours, as well as in gold and silver, for trade purposes generally and particularly for the wine and spirit trade, in lieu and place of the marking obtained by hot brand and open vignette.
LEONARDT, FRIEDRICH - -	1407	7th May 1869	Metallic pens, penholders and metallic boxes for holding pens and other small articles.
LEONI, SIGISMUND - - -	3182	3rd Nov. 1869	Apparatus for cooking and lighting by gas.
LERCHENTHAL, STEPHAN, alias [SIMON.	194	21st Jan. 1869	Clasps or fastenings for scarfs and other articles of dress. (Patented by Alexander Melville Clark.)
LEROI, ETIENNE ANTOINE [VICTOR.	579	25th Feb. 1869	Improvements in the work produced by cards of carding-engines.
LEROY, EDMOND STANISLAS -	1390	6th May 1869	Improved apparatus for enlarging and reducing basso-relievos, plans or drawings and writings. (Patented by Henry Edward Newton.)
LESAGE, LOUIS AMAND - -	2989	14th Oct. 1869	Closing and securing vessels containing alimentary substances.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LESLIE, JAMES - - -	1280	26th April 1869	An improved apparatus for carding tow. (Patented by George White.)
LESNARD, FREDERIC - -	1748	5th June 1869	Improvements in machinery for producing and applying motive-power, and also in the parts connected therewith. (Patented by Alexander Melville Clark.)
LESNARD, FREDERIC - -	1772	8th June 1869	Machinery for propelling vessels. (Patented by Alexander Melville Clark.)
LETHBRIDGE, EDWARD - -	3447	29th Nov. 1869	Means of and apparatus for balancing mill-stones.
LEUFFGEN, GEORG - - -	1825	15th June 1869	Improvements in the manufacture of glass and in apparatus for the same. (Patented by Peter Jensen.)
LEVER, WILLIAM - - -	412	10th Feb. 1869	Manufacture of hats and other similar head coverings.
LEWIN, STEPHEN - - -	3530	7th Dec. 1869	Elevators for raising and stacking straw, hay and other similar substances.
LEWIS, ARTHUR HORNBY -	460	15th Feb. 1869	Extracting copper from its ores. (Communicated by Thomas Sterry Hunt and James Douglas, junior.)
LEWIS, FRED - - -	1734	4th June 1869	Improvements in bottles or vessels for perfumes, medicines and other liquids, and in the stoppers of such bottles or vessels.
LEWIS, GEORGE BONHAM -	3603	13th Dec. 1869	Net machines. (Patented by Henry Edward Newton.)
LEWIS, GEORGE THOMPSON -	2102	12th July 1869	Manufacture of white lead. (Patented by William Robert Lake.)
LEWIS, GEORGE THOMPSON -	3093	25th Oct. 1869	Manufacture of dry white lead and white lead pigment from metallic lead. (Patented by William Robert Lake.)
LEWIS, HENRY THOMAS -	1236	22nd April 1869	An improved mode of hanging or suspending sash frames.
LEWIS, ISAAC JACOB JORDAN -	1306	28th April 1869	Ventilation of hats or other coverings for the head.
LEWIS, JAMES - - -	2425	13th Aug. 1869	Extracting copper from its ores. (Communicated by Thomas Sterry Hunt and James Douglas, junior.)
LEWIS, JAMES - - -	2470	18th Aug. 1869	Certain improvements in spring sackings for bedsteads, which said improvements are also applicable to other articles for sitting or reclining on, as also in the joints for connecting and expanding the sides of metallic bedsteads with the head and foot parts.
LEWIS, SAMUEL - - -	1804	11th June 1869	Submarine drilling apparatus. (Patented by William Edward Newton.)
LEWIS, THOMAS CHRISTOPHER	196	21st Jan. 1869	Steam-engines.
LEY, GEORGE WILLIAM - -	1730	4th June 1869	Manufacture of ornamental articles in wood in imitation of carving.
LIANCOURT, CALLISTUS AUGUSTUS COUNT DE GODDES DE.	2104	13th July 1869	Life belts.
LIDDELL, ALEXANDER - -	1505	17th May 1869	Construction of metal cans or tins.
LIEBERMANN, CHARLES - -	1936	25th June 1869	Preparing coloring matters.
LIEBIG, JUSTUS BARON VON -	98	13th Jan. 1869	Salting and preserving meat. (Patented by Charles John Günther.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LIEBREICH, DOCTOR MATHIAS [EUGEN OSCAR, M.D.]	2046	7th July 1869	Producing partial or complete anæsthesia. (Patented by Astley Paston Price.)
LIERNUR, CHARLES THIEME -	1352	3rd May 1869	Daily inodorous removal and agricultural utilisation of human excrements, known as Liernur's pneumatic sewerage system.
LIGHT, CHARLES LLEWELLYN	2755	22nd Sept. 1869	Improvements in the construction of tram-rails, in the modes of fastening the same and in a mode of shifting carriages from one line of rails to another.
LILLER, JONAS ELSOM - -	549	22nd Feb. 1869	Apparatus for printing.
LILLICRAP, WILLIAM THOMAS	2656	9th Sept. 1869	Certain improvements in carts and other vehicles and in apparatus connected therewith.
LIMBERT, JAMES ALFRED -	307	1st Feb. 1869	Machinery or apparatus for raising, lowering and moving heavy bodies, and for operating punching machines and the feed motion of circular and other saws.
LIN, JEAN MARIE JOSEPH [CHARLES DU.]	753	11th March 1869	Improvements in the preparation of artificial fuel and in the manufacture of gas and coke therefrom. (Patented by John Henry Johnson.)
LIN, JEAN MARIE JOSEPH [CHARLES DU.]	3775	30th Dec. 1869	Production of cast-iron, iron and steel. (Patented by John Henry Johnson.)
LINCOLN, WILLIAM - -	255	27th Jan. 1869	Improvements in liquid discharging apparatus for extinguishing fire and other purposes, and in the means for generating gas within such apparatus. (Patented by Thomas Brown.)
LINCOLNE, WILLIAM - -	2238	23rd July 1869	Improvements in the manufacture of artificial marble or stone, which improvements are also applicable in the manufacture of the beds of billiard and bagatelle tables.
LINCOLNE, WILLIAM - -	2969	12th Oct. 1869	Improvements in fastening or securing the joints of belts and in the means employed therefor. (Communicated by Peter Murray.)
LINDLEY, JOHN - - -	1834	15th June 1869	Improved apparatus for oiling the axles of trucks or wagons used in collieries and for other similar purposes.
LINDLEY, JOSEPH - - -	1972	30th June 1869	Manufacture and ornamentation of ladies' night-dress cases, bed-head bags, watch pockets and other similar articles.
LION, GUSTAVE - - -	3153	30th Oct. 1869	A novel method of welding iron or any other metal in the manufacture of every kind of water or gas pipe, boxes for power shafts, axle boxes, tubes, coupling boxes, gun barrels and generally of all the cylinders and cones entering into the manufacture of fire-arms, as also in all analogous manufactures. (Patented by William Edward Gedge.)
LIPPIATT, THOMAS - - -	981	31st March 1869	Engraving and chasing articles of metal.
LIPPS, JOHN STEPHEN - -	1181	16th April 1869	An improved safety attachment to be adapted to burners for burning explosive gases for illuminating and other purposes. (Patented by William Edward Newton.)
LIPSCOMBE, FREDERICK - -	188	20th Jan. 1869	Improvements in purifying and storing water and in the apparatus employed therein.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LISSAJOUS, JULES ANTOINE -	2669	11th Sept. 1869	Apparatus for producing sonorous signals and musical sounds. (Patented by John Henry Johnson.)
LISTER, CHARLES LIMBERT -	1886	1st June 1869	Improvements in the manufacture of felted fabrics and in machinery employed therein.
LISTER, ISHMAEL WILLIAM -	1776	9th June 1869	Machines for compressing wool or other substances.
LISTER, SAMUEL CUNLIFFE -	2549	27th Aug. 1869	Improvements in looms for weaving pile and other fabrics, and in yarns for pile fabrics and in sizing them.
LISTER, WALTER - - -	333	3rd Feb. 1869	Improved means and apparatus for filtering saccharine solutions and syrups. (Communicated by Richard William Bender.)
LITTELL, WILLIAM M. - -	1535	18th May 1869	An improved device for securing corks in bottles. (Patented by Abraham Van Winkle.)
LITTLE, GEORGE - - -	2634	7th Sept. 1869	Apparatus for composing, transmitting and receiving telegraphic communications.
LITTLER, BENJAMIN - -	1672	31st May 1869	A new or improved guard for circular saws.
LIVESEY, GEORGE THOMAS -	3682	20th Dec. 1869	Apparatus used in the manufacture of gas.
LIVESEY, HENRY - - -	1532	18th May 1869	Velocipedes.
LIVESEY, HENRY - - -	3214	6th Nov. 1869	Poly-cycle rings or circular velocipedes.
LIVESEY, JAMES - - -	976	31st March 1869	Permanent way of railways.
LIVESEY, JAMES - - -	3607	13th Dec. 1869	Street tramways, light permanent way and temporary railroads.
LIVESEY, THOMAS - - -	2331	4th Aug. 1869	An improved mode of boiling size and in the apparatus employed therein.
LIVRY, MADAME LA MAR- [QUISE DE (née Louise Appoline Oudot de Dainville).	2073	10th July 1869	An improved mode of measuring or dividing time, applicable to chronometers, sextants and other such like instruments. (Patented by Alexander Melville Clark.)
LLEWELLYN, THOMAS - -	3330	18th Nov. 1869	An improved construction of cutter applicable to the squaring, planing, grooving and rabbetting of wood.
LLEWELLYN, WILLIAM - -	3113	27th Oct. 1869	Armour plating ships, applicable also to forts, turrets, shields and targets.
LLOYD, FRANCIS HENRY -	1626	26th May 1869	Manufacture of steel and iron tubes and gun barrels.
LLOYD, JOHN - - - -	1715	3rd June 1869	Construction of fans for ventilating.
LLOYD, JOHN HUGHES, M.D. -	970	31st March 1869	Improved machinery for working, cutting, shaping, sawing and hammering tools by power, and for apparatus connected therewith.
LLOYD, THOMAS HOLT - -	3746	27th Dec. 1869	Safety valves.
LOADER, JOHN - - - -	144	16th Jan. 1869	Steam-boilers.
LOADER, JOHN - - - -	513	19th Feb. 1869	Steam generators.
LOADER, JOHN - - - -	676	6th March 1869	Rotary engines and pumps.
LOADER, JOHN - - - -	861	22nd March 1869	Means or apparatus for injecting water into steam-boilers.
LOADER, JOHN - - - -	2561	28th Aug. 1869	Rotary engines and pumps.
LOADER, JOHN - - - -	3558	9th Dec. 1869	Liquid meters.
LOADER, JOHN - - - -	3702	22nd Dec. 1869	Steam-boilers.
LOBB, HARRY WILLIAM - -	1092	10th April 1869	An improved velocipede.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LOBNITZ, HENRY CHRISTIAN -	3387	23rd Nov. 1869	Motive-power engines.
LOCHER, THÉOPHILE - -	783	13th March 1869	Breech-loading fire-arms. (Patented by William Robert Lake.)
LOCKE, JESSE ALBERT - -	1443	11th May 1869	Improvements in casting metals under pressure and in apparatus and appliances therefor. (Patented by Benjamin Joseph Barnard Mills.)
LOCKETT, GEORGE - - -	3440	27th Nov. 1869	A revolving graphoscope.
LOCKMAN, CHRISTOPHER -	2386	10th Aug. 1869	Sewing-machines.
LOCKWOOD, JOHN - - -	1584	22nd May 1869	Couplings for railway engines, carriages and waggons.
LOCKWOOD, JOHN - - -	3098	26th Oct. 1869	Couplings for railway engines, carriages, and waggons.
LOCKYER, THOMAS WILLIAM -	2296	30th July 1869	Ladies' panniers or bustles.
LOEBL, JOSEF - - -	3506	3rd Dec. 1869	Fastenings and locks for bags and other like articles. (Communicated by Bernard Steinmetz.)
LOEBL, SAMUEL - - -	3506	3rd Dec. 1869	Fastenings and locks for bags and other like articles. (Communicated by Bernard Steinmetz.)
LOEWENBERG, HENRY - -	581	25th Feb. 1869	A new or improved compound to be used in the manufacture of hats, bonnets and other articles of wearing-apparel, and the means employed therein.
LOEWENBERG, HENRY - -	685	6th March 1869	Improvements in envelopes and in the means employed for securing their contents. (Patented by Alexander Melville Clark.)
LOGAN, GEORGE FOX - -	3569	10th Dec. 1869	A new or improved means for utilising waste heat and for consuming smoke, which is also applicable for drawing off and consuming noxious gases or vapours.
LOGAN, JOHN - - -	3242	11th Nov. 1869	An improved mode of ornamenting textile fabrics.
LOIRE, CHARLES AUGUSTE [BARTHÉLÉMY.	1766	8th June 1869	Obtaining lithographic compositions or printing surfaces. (Patented by Benjamin Joseph Barnard Mills.)
LOMAX, JOHN - - -	1943	26th June 1869	An improved means or apparatus for arresting and depositing the "stive" or flour contained in the air discharged from millstones during the process of grinding.
LOMAX, JOHN - - -	1944	26th June 1869	Apparatus for preventing the deleterious effects of "back lash" in driving millstones.
LONGBOTTOM, WILLIAM -	2489	20th Aug. 1869	Velocipedes and other vehicles propelled by manual power.
LONGDON, ROBERT - -	2384	10th Aug. 1869	Safes and refrigerators for preserving and cooling food and other articles.
LONGFIELD, CHARLES - -	879	23rd March 1869	Cramps for flooring boards and other purposes.
LONGWORTH, EDWIN - -	3393	24th Nov. 1869	Improved self-acting apparatus for placing fog signals upon railways.
LONTIN, DIEUDONNÉ FRANÇOIS [JOSEPH.	917	25th March 1869	An improved electro-magnetic machine. (Patented by William Robert Lake.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LOOKER, BENJAMIN - -	2172	19th July 1869	The construction of an improved earthenware box or pan for growing, raising or forcing seeds, plants or cuttings.
LOOMIS, SAMUEL L. - -	3360	20th Nov. 1869	A new and improved apparatus for tightening and holding window sashes.
LOOMIS, WILLIAM - - -	1740	5th June 1869	Construction and application of breaks to railway-carriage and waggon wheels. (Patented by Edward Griffith Brewer.)
LORAM, ALBERT EDMUND -	3438	27th Nov. 1869	Buckles and clasps.
LORD, EDWARD - - -	345	4th Feb. 1869	Furnaces for steam-boilers and other purposes.
LORIERE, CHARLES ERNEST DE	1764	7th June 1869	Buttons and studs for fastening cuffs, wristbands and other articles of dress.
LOUD, ALFRED COLBURN -	2916	7th Oct. 1869	An improved form of wheel for propelling ships and applicable also to pumps for raising or forcing water. (Patented by William Edward Newton.)
LOUDEN, ALEXANDER - -	2323	3rd Aug. 1869	Taps or cocks used for drawing off water and other liquids from casks or other vessels.
LOUGH, JOHN - - -	1459	12th May 1869	Improvements in saw teeth and in machinery or apparatus for forming the same. (Patented by John Henry Johnson.)
LOUGH, WILLIAM, the younger	1459	12th May 1869	Improvements in saw teeth and in machinery or apparatus for forming the same. (Patented by John Henry Johnson.)
LOWNDES, ROBERT GILLES -	226	25th Jan. 1869	Machinery or apparatus to be employed for finishing textile or other fabrics.
LOWNDES, ROBERT GILLIES -	2253	24th July 1869	Manufacture of textile fabrics.
LOWREY, ROBERT ORPHEUS -	1884	19th June 1869	Compounding and applying certain compounds to render fabrics water repellent. (Patented by Henri Adrien Bonneville.)
LOWRY, GEORGE - - -	169	19th Jan. 1869	Construction of hackling machines.
LOWRY, GEORGE - - -	2131	15th July 1869	Machinery for dressing and preparing flax for spinning.
LUCAS, ERNST FRIEDRICH [RICHARD,	761	12th March 1869	Manufacture of soluble phosphate of lime and of phosphatic manures.
LUCAS, JOHN EDWARD - -	538	20th Feb. 1869	An improved floating velocipede. (Communicated by John G. Holbrooke.)
LUCAS, JOHN TEMPLETON -	1542	19th May 1869	Improved velocipedes.
LUCAS, THOMAS PALMER -	58	8th Jan. 1869	An improved method of exhibiting "cartes de visite" or other portraits or pictures.
LUKE, — - - -	3292	15th Nov. 1869	A new or improved process for refining and desilvering lead, and apparatus employed for that purpose. (Patented by Charles Denton Abel.)
LUKE, CURTIS ORANGE - -	214	23rd Jan. 1869	Machines for quarrying and sawing stone or minerals. (Patented by John Millward.)
LÜDERS, HERMAN WILLIAM -	2598	3rd Sept. 1869	Steam-boilers. (Patented by Alexander Melville Clark.)
LUDERS, THOMAS - - -	2942	9th Oct. 1869	Improved means of locomotion. (Patented by Alexander Horace Brandon.)
LUDLOW, EDWIN - - -	2862	2nd Oct. 1869	An improvement or improvements in sporting cartridges for breech-loading fire-arms.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LUDOVIC, HENRY - - -	2445	16th Aug. 1869	Process of charging and discharging fuel in gas retorts or other gas distilling apparatus. (Patented by Henri Adrien Bonnetville.)
LUÉ, ANGELO - - -	2398	10th Aug. 1869	Improvements in waterproofing fabrics and in the manufacture of compositions suitable for this purpose. (Patented by Caleb David Watson.)
LUGO, ORAZIO - - -	1539	19th May 1869	An improved process for obtaining gelatine and other products from animal substances. (Patented by William Robert Lake.)
LUKE, HANKINSON - -	1466	13th May 1869	Improvements in window sashes and in fastenings for the same.
LUMLEY, HENRY ROBERT -	1418	10th May 1869	The treatment of molten iron in order to free it from all impurities.
LUMLEY, HENRY ROBERT -	1582	22nd May 1869	Improvements in treating and purifying crude iron and in making steel, and in an apparatus for such purpose.
LUND, JAMES - - -	2843	30th Sept. 1869	A self-acting means or apparatus applicable to carriages, carts, waggons and other common road vehicles, whether with four or two wheels, for adjusting the load in ascending or descending a hill and applying a brake in descending.
LUNDBORG, CHARLES GEORGE	2191	20th July 1869	An improved mode of attaching or securing the free ends of wire and other ropes. (Patented by Joseph Ellicott Holmes.)
LUNDY, THOMAS EVANS -	288	30th Jan. 1869	Apparatus for driving sewing-machines by electro-magnetism.
LUNDY, THOMAS EVANS -	3334	19th Nov. 1869	New or improved means of communication between passengers in cabs, private carriages, omnibuses, tramroad cars and other such like vehicles and the drivers or conductors thereof.
LUNGLEY, CHARLES - -	261	27th Jan. 1869	Building and working caissons and pontoons for lifts and floating and dry docks, and other structures in iron and wood.
LUNGLEY, CHARLES - -	1085	9th April 1869	Improved means of and apparatus for removing deposit from tubes, flues and passages.
LUSK, ROBERT JAMES - -	1459	12th May 1869	Improvements in saw teeth and in machinery or apparatus for forming the same. (Patented by John Henry Johnson.)
LYMAN, AZEL STORRS - -	2054	7th July 1869	Improvements in the preparation of meat for preservation and in the preservation of the same. (Patented by John Henry Johnson.)
LYMAN, JOHN NASH - -	244	26th Jan. 1869	Machinery for cutting veneers. (Patented by Alfred Vincent Newton.)
LYMAN, MILES ARETUS - -	244	26th Jan. 1869	Machinery for cutting veneers. (Patented by Alfred Vincent Newton.)
LYNCH, THOMAS FRANCIS -	3355	20th Nov. 1869	Bottles for holding poisons and other preparations.
LYNDE, JAMES GASCOIGNE -	2604	4th Sept. 1869	A diaphragm indicator especially adapted for water and other meters.
LYON, JOB HENRY - - -	3014	15th Oct. 1869	Furnaces for making glass.
LYON, WILLIAM - - -	3014	15th Oct. 1869	Furnaces for making glass.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
LYON, WILLIAM MACLAY -	1391	6th May 1869	Treatment of cast iron for the production of wrought-iron and steel therefrom. (Patented by Charles Denton Abel.)
LYONS, EDWARD - - -	648	3rd March 1869	Lamps for burning volatile oils or spirits.
LYONS, SAMUEL - - -	3	1st Jan. 1869	The mode of producing and employing devices and designs upon textile fabrics, for certain articles of dress.
LYSONS, LORENZO GEORGE -	617	27th Feb. 1869	Apparatus for signalling from the marker's butt and firing party respectively, in rifle, carbine or artillery practice.
LYTTLE, WILLIAM ALEXANDER	391	9th Feb. 1869	Construction and application of those combinations of an insulated electrical conductor with soft iron known either as electro-magnetic or magneto-electric apparatus.
LYTTLE, WILLIAM ALEXANDER	797	16th March 1869	Means and apparatus employed for sustaining and insulating electro-telegraphic overland line wires.
LYTTLE, WILLIAM ALEXANDER	1250	23rd April 1869	Voltaic batteries for telegraphic and other purposes.
LYTTLE, WILLIAM ALEXANDER	1467	13th May 1869	Electro-telegraphic apparatus.
LYTTLE, WILLIAM ALEXANDER	1801	11th June 1869	Electro telegraphic apparatus.
LYTTLE, WILLIAM ALEXANDER	2281	28th July 1869	Electro-telegraphic apparatus.
LYTTLE, WILLIAM ALEXANDER	2671	11th Sept. 1869	Telegraph posts.

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MABSON, JOHN - - -	527	20th Feb. 1869	Appliances for drawing corks and for receiving the wax and dirt which fall therefrom.
MABSON, JOHN - - -	1777	9th June 1869	Improvements in and connected with sewing-machines, the production of new stitches or new work in sewing-machines, and the combination with sewing-machines of a cutting machine for cutting cloth, calico, wood or other material.
M ^c ADAM, WILLIAM - - -	798	16th March 1869	Packing bottles and other frangible articles.
M ^c ADAM, WILLIAM - - -	1549	19th May 1869	Improvements in the manufacture of pottery and in the machinery or apparatus employed therefor.
M ^c ADAM, WILLIAM - - -	3734	24th Dec. 1869	Improvements in collecting fares or payments on tramway cars, omnibuses and on railways, and in the apparatus or means employed therefor, which improvements may also be applied for collecting money at places of amusement and elsewhere.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
McCALLA, CHARLES ANTONIO	3565	9th Dec. 1869	Improvements in closing and stoppering bottles, tubes and other such vessels, and in the means of regulating and measuring the flow of liquids from such vessels.
McCANN, JOHN - - -	2404	11th Aug. 1869	Manufacture of dry soap for washing, cleansing, calendering and finishing cotton and cotton fabrics, wool and woollen fabrics and mixtures of the same.
McCARTER, JOHN WALKER -	1222	21st April 1869	Condensers for steam-engines.
McCARHY, ALFRED PATRICK	902	24th March 1869	Obtaining motive-power.
McCARHY, ALFRED PATRICK	2753	22nd Sept. 1869	Obtaining motive-power.
MACCARTNEY, WILLIAM NEW- [TON.	3339	19th Nov. 1869	An improved railway carriage for passengers. (Communicated by Edward Robbins.)
McCORMICK, JAMES - - -	3248	11th Nov. 1869	An improvement in the process of brewing malt and other substances.
McDERMOTT, CHARLES - - -	892	24th March 1869	An improved press for applying combined eyelets and paper fasteners, and the ordinary shoe eyelets.
McDIARMID, THOMAS GIFFORD	3735	24th Dec. 1869	Improvements in the rig of ships and vessels, and in the mechanism or apparatus for reefing and furling the sails of ships and vessels.
McDONALD, JOHN - - -	280	29th Jan. 1869	Stoppers or valves for bottles and other like vessels.
McDONNELL, WILLIAM - - -	108	14th Jan. 1869	Improvements in or in addition to churns, parts of which are applicable to other purposes.
McDOUGALL, ARTHUR - - -	3410	25th Nov. 1869	Manufacture of blacking.
McDOUGALL, COLIN - - -	86	12th Jan. 1869	A ladies' umbrella and dress suspender.
McDOWALL, JAMES - - -	3191	3rd Nov. 1869	Machinery for sawing and otherwise cutting timber.
McELROY, JAMES ANGELO -	687	8th March 1869	Rotatory motive-power pumping and measuring apparatus.
McEVoy, BERNARD - - -	1053	7th April 1869	An improved game suitable for outdoor or indoor exercise, and instruments and appliances connected therewith.
McFARLAND, GEORGE BRAD- [FORD.	3446	29th Nov. 1869	A new and improved convertible double centre rotary engine.
McFARLAND, WILLIAM - - -	1804	11th June 1869	Submarine drilling apparatus. (Patented by William Edward Newton.)
McGAVIN, ALAN LAWRIE -	1555	19th May 1869	Improvements in propelling and manoeuvring vessels, and in the apparatus employed for such purposes. (Communicated by Benjamin Dickinson.)
McGAVIN, ALAN LAWRIE -	1556	19th May 1869	Constructing and propelling ships and other vessels. (Communicated by Benjamin Dickinson.)
McGEE, WALTER - - -	3612	14th Dec. 1869	Machinery for doubling and winding fibrous materials.
McGEE, WILLIAM - - -	2838	30th Sept. 1869	Improvements in winding thread or yarn upon pirns and in apparatus therefor.
McGEE, WILLIAM - - -	3325	18th Nov. 1869	Apparatus for winding thread or yarn upon pirns.
McGEE, WILLIAM - - -	3612	14th Dec. 1869	Machinery for doubling and winding fibrous materials.
McGEORGE, IVIE MACKIE -	1494	15th May 1869	A new and improved velocipede.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
M ^c GOUGH, PETER - - -	2593	2nd Sept. 1869	Sash frames and sashes particularly applicable to the windows of railway and other carriages.
M ^c GREGOR, ALEXANDER -	131	15th Jan. 1869	Reaping and mowing machines.
M ^c GREGOR, ALEXANDER -	658	4th March 1869	Machinery or apparatus for reaping and mowing, and for spreading and collecting grass.
M ^c GREGOR, JAMES - - -	1562	20th May 1869	Preservation of iron and steel and structures composed thereof.
MACGREGOR, OLIVER EDGAR -	995	1st April 1869	Carpenter's and joiner's planes.
M ^c GREGOR, PETER - - -	1541	19th May 1869	Machinery for spinning and doubling.
M ^c HARDY, JAMES - - -	2976	13th Oct. 1869	An improved drag applicable to waggons, omnibuses and other wheeled vehicles.
M ^c HARDY, JAMES - - -	3629	15th Dec. 1869	An improved drag or brake applicable to waggons, omnibuses, carriages and other wheeled vehicles.
M ^c HARDY, ROBERT - - -	1844	15th June 1869	An improved agricultural and garden implement.
M ^c ILWHAM, JAMES - - -	2088	9th July 1869	Looms for weaving.
MACIVOR, WILLIAM - - -	2588	1st Sept. 1869	Treatment of hydrocarbon oils.
M ^c IVOR, WILLIAM - - -	3084	23rd Oct. 1869	A process whereby sulphuric acid residues produced in the refining of oleaginous and bituminous matters may be utilized and employed for the production of sulphate of soda and sulphide of sodium and black ash.
M ^c KAY, GORDON - - -	1860	16th June 1869	A new method of and apparatus for counting the stitches made by a sewing-machine. (Patented by William Robert Lake.)
M ^c KEAN, JAMES ASBURY -	3004	15th Oct. 1869	An improved machine for drilling or boring rocks, chiefly designed for working mines, tunnels and quarries, and for submarine operations. (Patented by William Robert Lake.)
MACKEAN, WILLIAM - - -	1380	5th May 1869	Manufacture of cattle food.
M ^c KENNY, JAMES - - -	21	4th Jan. 1869	Improvements applicable to the shoes of horses and other animals.
M ^c KENZIE, JAMES - - -	2912	7th Oct. 1869	An improved method of jointing, fastening and securing rails in railway chairs.
M ^c KENZIE, JAMES - - -	3711	22nd Dec. 1869	Apparatus for sharpening the cutters of mowing-machines. (Communicated by Messrs. La Due, Blish and Co.)
M ^c KENZIE, THOMAS - - -	3711	22nd Dec. 1869	Apparatus for sharpening the cutters of mowing-machines. (Communicated by Messrs. La Due, Blish and Co.)
M ^c KENZIE, WILLIAM - - -	3711	22nd Dec. 1869	Apparatus for sharpening the cutters of mowing-machines. (Communicated by Messrs. La Due, Blish and Co.)
M ^c KERROW, JOHN BEGG -	2798	27th Sept. 1869	Improved means for effecting the removal or discharge of dye-wood from hanks or yarn.
M ^c KIRDY, JOHN GREGORY -	1756	7th June 1869	An improved stile or biped pass for parks or other enclosures.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
McLAUCHLAN, JOHN - -	1147	14th April 1869	Manufacture of retorts for reburning animal charcoal for making gas and for other like uses.
MACLEAN, WALTER - -	277	29th Jan. 1869	Improvements in printing and in the machinery or apparatus employed therefor.
MACLEAN, WALTER - -	3500	3rd Dec. 1869	Improvements in printing, lithographing and zincographing, and in the means or apparatus employed therefor.
MACLENNAN, MALCOLM -	522	19th Feb. 1869	Permanent way of railways.
McLEOD, MURDOCH - -	952	30th March 1869	Improvements in railways and in the mode of working same.
McMASTER, HUGH DUNBAR -	1614	26th May 1869	An improved governor or regulator for steam-engines.
McMILLAN, JOHN - - -	1562	20th May 1869	Preservation of iron and steel and structures composed thereof.
McNABB, WILLIAM - - -	1864	17th June 1869	Fasteners for bands and the modes or methods of applying the same.
McNEIGHT, WILLIAM HANSE [HAMMILTON.]	777	13th March 1869	Apparatus or machinery for raising, lowering and suspending venetian or other blinds and shutters.
McNEIGHT, WILLIAM HANSE [HAMMILTON.]	3023	16th Oct. 1869	Venetian and other blinds.
McNEILE, ALEXANDER -	475	16th Feb. 1869	Carriage wheels.
McNEILE, ALEXANDER -	1608	25th May 1869	Carriage wheels.
McNEILE, ALEXANDER -	2575	31st Aug. 1869	Breaks for retarding the progress of wheeled carriages.
McNEILL, ANDREW - - -	3366	24th Nov. 1869	A safe for ships and other navigable vessels carrying mails, specie and other valuables.
MACAIGNE, ERNEST - - -	673	5th March 1869	Manufacture of fabrics by the employment of fur or down therein. (Patented by Clinton Edgcumbe Brooman.)
MACAIGNE, JULES - - -	673	5th March 1869	Manufacture of fabrics by the employment of fur or down therein. (Patented by Clinton Edgcumbe Brooman.)
MACGEORGE, WILLIAM - -	2174	19th July 1869	Improved mechanism for starting and working steam-engines, partly applicable to other purposes.
MACGUIRE, THOMAS - - -	3516	4th Dec. 1869	Packing glands of steam and other engines.
MACINTOSH, JOHN - - -	327	3rd Feb. 1869	Ornamenting surfaces.
MACINTOSH, JOHN - - -	880	23rd March 1869	Application of elastic fillets, cords or bands to boots and shoes and other articles of wearing-apparel.
MACINTOSH, JOHN - - -	921	27th March 1869	Improvements in working guns and in apparatus connected therewith.
MACINTOSH, JOHN - - -	1927	24th June 1869	Waterproof varnishes and paints.
MACINTOSH, JOHN MACWILLIAM	3498	3rd Dec. 1869	Apparatus for taking up, carrying and laying sheets of paper delivered by a paper cutting or other machine.
MACK, WILLIAM B. - - -	3651	17th Dec. 1869	Apparatus for heating feed-water. (Patented by William Foulds.)
MACK, WILLIAM B. - - -	3664	18th Dec. 1869	Apparatus to promote circulation in steam-boilers. (Patented by William Foulds.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MACKAY, COLIN - - -	2523	25th Aug. 1869	Improvements in cops for wefting and warping purposes, and in machinery for making and in shuttles for containing the same.
MACKAY, FREDERICK NOEL -	178	20th Jan. 1869	Means and apparatus for cooling, refrigerating and ice making.
MACKENZIE, JAMES - - -	2464	18th Aug. 1869	Construction of machinery for sowing seeds and for distributing artificial manure.
MACKENZIE, JAMES - - -	2773	23rd Sept. 1869	Weighing machines.
MACKENZIE, KENNETH SMITH, [BARONET.	1210	20th April 1869	Fences, railings, hurdles and similar structures.
MACKIE, JAMES - - -	1342	1st May 1869	An improvement or improvements in "lock fast" breech-loading fire-arms.
MACKIE, JAMES - - -	3003	15th Oct. 1869	An improvement or improvements in "lock fast" breech-loading fire-arms.
MACKIE, SAMUEL JOSEPH -	3312	17th Nov. 1869	Construction and propulsion of floating vessels.
MACKINNON, JOHN A. - -	1839	15th June 1869	Hold-backs for carriages. (Patented by John Halliwell.)
MACKINTOSH, DONALD ARCHI- [BALD SINCLAIR.	1271	24th April 1869	A new or improved cask spile.
MACLEOD, MALCOLM - - -	2748	22nd Sept. 1869	Apparatus for sanitary purposes.
MACNEILL, SIR JOHN, KNIGHT	3361	20th Nov. 1869	Improvements in lucifer match and fusee boxes or cases, and in frictional surfaces for igniting lucifer matches and fusees.
MACRAE, WILLIAM - - -	663	4th March 1869	Construction of velocipedes.
MADDERS, WILLIAM - - -	1779	9th June 1869	Machinery for embroidering.
MADDERS, WILLIAM - - -	1940	26th June 1869	Improvements in or applicable to embroidering machines.
MADDICK, WILLIAM - - -	334	3rd Feb. 1869	Improvements connected with the internal fire tubes of locomotive, marine and other boilers.
MAGNIANT, MAXIMILIEN [JOSEPH.	151	16th Jan. 1869	Moulding metal articles. (Patented by Michael Henry.)
MAIDEN, JOHN - - -	3205	5th Nov. 1869	Lubricators.
MAJOR, JOSEPH - - -	22	4th Jan. 1869	Production of white lead.
MAJOR, JOSEPH - - -	1260	24th April 1869	A new or improved manufacture of white lead and apparatus employed therein.
MALLARD, PÈRE - - -	286	29th Jan. 1869	Horse shoes. (Patented by Adolphe Mallard.)
MALLARD, ADOLPHE - - -	286	29th Jan. 1869	Horse-shoes. (Communicated by Mallard, père, Guerriero and Isabel.)
MALLAT, JEAN BENOIT - -	3255	11th Nov. 1869	An improvement or improvements in metallic pens. (Patented by Josiah Mason.)
MALLET, JULES THEODORE [ANATOLE.	2137	15th July 1869	A new or improved mode of and apparatus for charging atmospheric air with oxygen.
MALLET, ROBERT - - -	2047	7th July 1869	Improvements in the manufacture of iron and steel, parts of such improvements being applicable to other metallurgical purposes.
MALLETT, FRANCIS WILLIAM	504	18th Feb. 1869	An improved machine for making sewing needles.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MALLETT, FRANCIS WILLIAM	2460	17th Aug. 1869	An improved machine for making sewing needles. (Patented by William Robert Lake.)
MALLETT, JOHN - - -	3293	15th Nov. 1869	Despatch boxes and other similar articles.
MALTBY, DOUGLAS F. - -	3115	27th Oct. 1869	New or improved machinery or apparatus for reducing the diameter of wire or rods, for wire drawing and for other like purposes. (Patented by Orin Lewis Hopson.)
MANBRÉ, ALEXANDRE - -	1897	21st June 1869	Improvements in preparing and treating cereal and other vegetable substances, extracting the starch they contain and in converting it into fermentable saccharine matter for use in brewing and distilling, in making vinegar, cyder, perry and other fermented drinks, and also for sweetening and preserving food, syrups, confectionery and other useful purposes.
MANBRÉ, ALEXANDRE - -	2209	21st July 1869	Steam-boilers.
MANCEAUX, FRANÇOIS JULES -	893	24th March 1869	Improvements in fire-arms and in apparatus for charging the same.
MANCEAUX, FRANÇOIS JULES -	2071	9th July 1869	Improvements in breech-loading fire-arms and in cartridges for the same.
MANGIN, LEON - - -	1269	24th April 1869	Velocipedes. (Patented by Charles Denton Abel.)
MANGNALL, JOHN - - -	56	8th Jan. 1869	Apparatus for preparing coffee and other infusions.
MANN, WILLIAM CHARLES -	3401	24th Nov. 1869	Improvements in the manufacture of hats and in the machinery used therein.
MANNING, JAMES ALEXANDER	2269	26th July 1869	Treatment of night soil and other waste products, and for the manufacture of manure therefrom. (Patented by John Henry Johnson.)
MANSERGH, JAMES - - -	46	7th Jan. 1869	Stench traps.
MANSFIELD, GEORGE NEEDHAM	1404	7th May 1869	An improved manufacture of parquet flooring.
MANWARING, WILLIAM - -	2358	7th Aug. 1869	Harvesting machines.
MARCH, THOMAS CHARLES -	3656	17th Dec. 1869	Improvements applicable to the ornamentation of articles of furniture and to the interior decoration of houses.
MARCHANT, ROBERT MUDGE -	264	28th Jan. 1869	An improved mode of obtaining and applying power for locomotive and stationary purposes, and apparatus connected therewith.
MARDEN, JEREMIAH AVERY -	1444	11th May 1869	An invention having reference to steam and other enginery.
MARÉE-GIOT, JEAN BAPTISTE	2533	26th Aug. 1869	Means and apparatus for separating or dividing the carded fleece into slivers in carding-machines for all kinds of filaments. (Patented by Charles Denton Abel.)
MARGUERITTE, LOUIS JOSEPH [FRÉDÉRIC.	164	18th Jan. 1869	Manufacture and refining of sugar. (Patented by Alexander Melville Clark.)
MARGUERITTE, LOUIS JOSEPH [FRÉDÉRIC.	2280	27th July 1869	Manufacture and refining of sugar. (Patented by Alexander Melville Clark.)
MARKHAM, CHARLES - -	603	26th Feb. 1869	Steam and other boilers.
MARLOR, CHARLES - -	1859	16th June 1869	An improved pad for hats, caps and other coverings for the head.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MARQUIS, ALEXANDER BUR- [NETT.]	3454	29th Nov. 1869	Machinery for cutting or dividing metal or other sheets.
MARQUIS, GEORGE - - -	3454	29th Nov. 1869	Machinery for cutting or dividing metal or other sheets.
MARREL, FRÈRES - - -	2736	20th Sept. 1869	Improvements in the manufacture of chains and in the apparatus in connection therewith. (Patented by Clinton Edgcumbe Brooman.)
MARRIOTT, CHARLES ALFRED	3748	27th Dec. 1869	Steam-engines.
MARRIOTT, FREDERICK - -	2827	29th Sept. 1869	An improved aerial carriage. (Patented by William Henry Noble.)
MARSDEN, CHARLES - - -	914	25th March 1869	Improved means of and apparatus for making gas and water tight flexible joints to pipes and tubes.
MARSDEN, HENRY MELTON -	3017	15th Oct. 1869	An improved method of manufacturing sheep shears and other articles of cutlery.
MARSDEN, HENRY MELTON -	3692	21st Dec. 1869	Improvements in the manufacture of sheep shears and other cutting tools, and in moulds in which the material is cast for the manufacture of the same.
MARSDEN, ROBERT - - -	3156	30th Oct. 1869	Pulley blocks or apparatus for raising heavy weights.
MARSDEN, SAMUEL - - -	659	4th March 1869	Machinery for making bolts and rivets.
MARSHALL, CHARLES - - -	1132	13th April 1869	Apparatus for distributing fumigating matter in order to destroy insects and flies on plants.
MARSHALL, JAMES - - -	563	23rd Feb. 1869	Applying trade marks, names and devices upon metallic capsules. (Partly communicated by Hermann Summerlein.)
MARSHALL, JAMES FOWLE [BALDWIN.]	2544	27th Aug. 1869	Machinery or apparatus for hulling, cleansing and polishing or preparing coffee, rice and other berries or grain. (Patented by Bristow Hunt.)
MARSHALL, JAMES GARTH -	1799	10th June 1869	Velocipedes.
MARSHALL, RICHARD - - -	1300	27th April 1869	Construction of wheels for carriages.
MARSHALL, RICHARD EEDE -	1132	13th April 1869	Apparatus for distributing fumigating matter in order to destroy insects and flies on plants.
MARSHALL, THOMAS - - -	3314	17th Nov. 1869	A new or improved composition for the prevention of fouling of ships' bottoms and other articles in continuous or frequent contact with water.
MARSHALL, THOMAS ALEXAN- [DER.]	525	20th Feb. 1869	Steam-engines and boilers.
MARSHALL, THOMAS PRESTON	455	15th Feb. 1869	Saws. (Patented by Bristow Hunt.)
MARSHALL, WILLIAM ALFRED	3587	11th Dec. 1869	Improvements in the manufacture of electric telegraph cables and in apparatus employed therein.
MARSTON, EDWARD - - -	1413	8th May 1869	Puddling furnaces.
MARSTON, WILLIAM - - -	999	2nd April 1869	Improvements in bolts and in the means of securing the same.
MARTELIÈRE, ALFRED CA- [MILLE DE LA.]	3080	23rd Oct. 1869	A new or improved manufacture of metallic tiles or slates for roofing. (Patented by Charles Denton Abel.)
MARTIN, ALFRED JOSEPH -	1189	17th April 1869	A new mode of advertising.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MARTIN, CÉLESTIN - -	308	1st Feb. 1869	Machinery for condensing slivers. (Patented by Alfred Vincent Newton.)
MARTIN, CELESTIN - -	2505	23rd Aug. 1869	A new and useful improvement in machinery for carding and combing wool and other fibrous materials. (Patented by Henri Adrien Bonneville.)
MARTIN, EDWIN - - -	2399	10th Aug. 1869	Metallic cartridges. (Patented by Alexander Horace Brandon.)
MARTIN, EDWIN - - -	3708	22nd Dec. 1869	Improvements in feeding-bottles and in the stoppers and fittings thereof, part of which improvements are also applicable to other purposes.
MARTIN, GEORGE - - -	1540	19th May 1869	Improvements in the means of generating gases and chemical vapours employed in the manufacture of extract wool, and in destroying the vegetable material in mixed fabrics, and in the construction and arrangement of apparatus therefor, which apparatus is also applicable to other purposes.
MARTIN, JAMES CHARLES -	3030	18th Oct. 1869	Iron or other metal name plates for shop window stall plates, door plates, &c.
MARTIN, JEAN FELIX ERNEST	2410	12th Aug. 1869	An improved construction of submarine and other tunnels.
MARTIN, JOHN COWDERY -	3661	18th Dec. 1869	An improvement in the manufacture of finings as a substitute for isinglass for clarifying wine and beer.
MARTIN, JOSEPH - - -	1903	22nd June 1869	An improved process for rendering cloth and other fabrics and materials repellent of water, and in apparatus connected therewith.
MARTIN, JOSEPH - - -	3698	21st Dec. 1869	Improvements in rendering cloth and other fabrics and materials repellent of water, and in apparatus therefor.
MARTIN, JULES - - -	2681	14th Sept. 1869	A new or improved appliance or apparatus for preventing accidents through the closing of doors and windows. (Patented by Charles Denton Abel.)
MARTIN, ONÈSIME ALEXIS [BENJAMIN.	2321	3rd Aug. 1869	Improved mechanism for converting reciprocating rectilinear motion into rotary motion, and for converting rotary motion into reciprocating rectilinear motion. (Patented by Charles Denton Abel.)
MARTIN, PIERRE EMILE -	1156	14th April 1869	Apparatus for burning liquid hydrocarbons. (Patented by Clinton Edgumbe Brooman.)
MARTIN, REUNE - - -	3598	13th Dec. 1869	Machinery or apparatus for sewing or stitching together the number or separate parts of a volume, in the operation of bookbinding. (Patented by John Garrett Tongue.)
MARTIN, STEPHEN - - -	3262	12th Nov. 1869	Construction of chairs for supporting the rails of rail and tramways.
MARTIN, THOMAS - - -	821	18th March 1869	Improvements in the means for supplying ammunition and other objects to troops under action, and in cars or vehicles employed for that purpose, also improvements in such ammunition and in the mode of packing the same.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MARTIN, THOMAS HENRY -	500	18th Feb. 1869	An improved method for tightening piston rings to the cylinders of steam or other engines.
MARTIN, THOMAS JOHN -	2091	12th July 1869	Couplings and wheels for shafting and gearing.
MARTIN, THOMAS STEPHEN -	3187	3rd Nov. 1869	Construction of self-acting stopcocks.
MARTIN, WILLIAM -	1109	10th April 1869	Construction of ships and vessels.
MARTIN, WILLIAM -	1538	19th May 1869	Perambulators.
MARTIN, WILLIAM ARENA -	786	15th March 1869	New or improved apparatus for diffusing the heat and promoting the generation of steam in steam-boilers.
MARTIN, WILLIAM ARENA -	3110	27th Oct. 1869	Fuel-feeding and smoke-consuming apparatus for furnaces.
MARTYN, RICHARD -	2627	7th Sept. 1869	An improved wheel buddle for dressing or separating in ores and ores of all metals, and ore which is held in suspension in water and earthy substances.
MARTYN, WILLIAM WILLIAMS	2627	7th Sept. 1869	An improved wheel buddle for dressing or separating tin ores and ores of all metals, and ore which is held in suspension in water and earthy substances.
MASBON, JOSEPH THEODOSE -	1840	15th June 1869	Apparatus for carrying invalid, wounded, sick and other persons.
MASON, AMASA -	32	5th Jan. 1869	Distillation of hydro-carbon oils. (Communicated by Charles Hall.)
MASON, HENRY -	714	9th March 1869	Looms for weaving.
MASON, JOSEPH -	1043	7th April 1869	Certain improvements in breech-loading guns.
MASON, JOSIAH -	3255	11th Nov. 1869	An improvement or improvements in metallic pens. (Communicated by Jean Benoit Mallat.)
MASSÉ, JULIE ADOLPHINE -	631	1st March 1869	Improvements in the construction of spring mattresses and in bedsteads for the same, parts of the improvements in mattresses being applicable to sofas and other seats. (Patented by Clinton Edgcumbe Brooman.)
MASSEY, GIDEON BLACKBURN	856	20th March 1869	Apparatus for measuring liquids. (Patented by Henry Edward Newton.)
MASSEY, GIDEON BLACKBURN	2945	9th Oct. 1869	High and low water level indicators for steam-boilers. (Patented by Alexander Melville Clark.)
MASTER, HUGH DUNBAR M ^c -	1614	26th May 1869	An improved governor or regulator for steam-engines.
MATHER, COLIN -	248	27th Jan. 1869	Machinery or apparatus for singeing fabrics by gas flames.
MATHER, COLIN -	692	8th March 1869	Warping and weaving machinery.
MATHER, COLIN -	1813	14th June 1869	Machinery for ginning, burring and cleaning cotton and other fibrous substances. (Communicated by Charles Grandison Sargent.)
MATHER, COLIN -	2876	4th Oct. 1869	Warping or beaming machines.
MATHER, GEORGE RADFORD -	822	18th March 1869	Means or apparatus for cutting or giving form to wood.
MATHER, GEORGE RADFORD -	3297	15th Nov. 1869	Means or apparatus for cutting or giving form to wood.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MATHERS, ROBERT - -	1676	31st May 1869	Supports and mattresses for beds, couches, ottomans, sofas and similar articles of furniture.
MATHIEU, JULES - - -	1049	7th April 1869	Construction of expanding caskets for jewels and other articles. (Patented by Henry Bernoulli Barlow.)
MATHIEU, JULES - - -	1482	14th May 1869	Cases for bottles and glass or other cups. (Patented by Henry Bernoulli Barlow.)
MATT, WILHELM - - -	2431	14th Aug. 1869	An improved compound or composition in imitation of marble, veneer and other substances, to be used in the manufacture of fancy and other articles.
MATTHEWS, FRANCIS COOK -	84	11th Jan. 1869	Treating Indian corn to obtain a new product therefrom, applicable for use in brewing and distilling and as a food for cattle.
MATTHEWS, GEORGE - -	1413	8th May 1869	Puddling furnaces.
MATTHEWS, HENRY - - -	2085	10th July 1869	Improvements in means or apparatus for drying, airing and warming woven fabrics, bottles and other articles, and for indicating the presence of moisture therein and in bedding.
MATTHEWS, MASON JOHNSTON	185	20th Jan. 1869	Harmoniums.
MATTHIESSEN, AUGUSTUS -	3778	31st Dec. 1869	A new or improved insulating substance for the covering of electric telegraph conducting wires, and for electric telegraph apparatus and insulators.
MAUGER, VICTOR EUGENE -	2179	19th July 1869	An improved blotter or ink absorber. (Communicated by Charles C. Moore.)
MAUGIN, CLAUDE ADOLPHE -	2864	2nd Oct. 1869	Apparatus used in silvering looking-glasses of all sizes.
MAULICK, GOTTLIEB - -	455	15th Feb. 1869	Saws. (Patented by Bristow Hunt.)
MAUMENÉ, EDMÉ JULES -	2364	7th Aug. 1869	An improved process for purifying or disinfecting alcohol and alcoholic liquors. (Patented by William Edward Newton.)
MAURIN, MADAME ADRIEN -	2297	30th July 1869	Block-calendars and other similar articles. (Patented by William Robert Lake.)
MAURY, MATTHEW FONTAINE	888	24th March 1869	The heating of railway and all other carriages, steamers, vessels, public and private apartments or buildings, by means of electricity. (Communicated by W. Leigh Burton.)
MAW, ARTHUR - - -	206	22nd Jan. 1869	Construction of moulds for moulding china, earthenware or pottery.
MAW, CHARLES - - -	611	27th Feb. 1869	Improvements in cartridges for fire-arms and ordnance, and in torpedoes and similar explosive engines.
MAY, WILLIAM CHAPLIN -	2946	9th Oct. 1869	Improved non-oleaginous printing inks and non-oleaginous printing varnishes.
MAYALL, JOHN JABEZ EDWIN	2476	19th Aug. 1869	Improvements in obtaining motive-power and in the machinery or apparatus employed therein, parts of which improvements are applicable to the forcing and exhausting of air.
MAYBURY, EDWARD - -	1413	8th May 1869	Puddling furnaces.
MAYDEN, HENRY HUTCHINSON	3492	2nd Dec. 1869	Machinery or apparatus for spinning tobacco.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MAYER, HENRY CHARLES -	1225	21st April 1869	Velocipedes.
MAYER, JOSEPH - - -	2407	11th Aug. 1869	An improvement in hooped skirts.
MAYGROVE, JOHN FREDERICK	1113	10th April 1869	Improvements in the mode of and in looms for weaving hair cloth and other fabrics.
MAYNARD, HENRY NATHAN -	3764	30th Dec. 1869	Piers or supports for bridges, viaducts, lighthouses, beacons, jetties, breakwaters and such like structures.
MAYNARD, ROBERT - - -	2522	25th Aug. 1869	An improvement in portable chaff-cutting machines.
MAYOR, RODOLPHE - - -	2646	8th Sept. 1869	An improved machine for cutting or dressing millstones. (Patented by Alexander Melville Clark.)
MAYOR, THOMAS - - -	759	11th March 1869	Machinery for spinning and twisting fibrous materials. (Patented by William Robert Lake.)
MAYS, JONATHAN ALDOUS -	1216	21st April 1869	Velocipedes and other vehicles or carriages mounted on running wheels.
MAZET, FELIX - - -	2394	10th Aug. 1869	An improved match-box candlestick. (Communicated by Alfred de Banville.)
MEAKIN, WILLIAM - - -	916	25th March 1869	An improved apparatus or means for raising, lowering and securing sliding window sashes.
MEDHURST, FRANCIS WILLIAM [HASTINGS.]	1018	3rd April 1869	Lamps. (Communicated by Lasslo Chandor.)
MEEKIN, JOSEPH - - -	2847	1st Oct. 1869	Apparatus for splitting rocks and other masses.
MÈGE, HIPPOLYTE - - -	2157	17th July 1869	The preparation and production of certain new animal fatty bodies.
MELDRUM, EDWARD - - -	376	6th Feb. 1869	Manufacture of paraffine oil.
MELDRUM, ROBERT - - -	553	22nd Feb. 1869	Machinery or apparatus for stopping locomotive and other engines and vehicles, or machinery when connected therewith.
MELDRUM, WILLIAM SMITH -	678	6th March 1869	Carding-engines for flax, tow, hemp, jute, wool and other fibrous substances.
MELLOR, SAMUEL - - -	411	10th Feb. 1869	Construction of pumps for raising and forcing water and other liquids.
MELONE, THOMAS LAYTON -	3441	27th Nov. 1869	Sewing-machines. (Patented by William Brookes.)
MENDEL, SAM - - -	3331	19th Nov. 1869	An improved mode of packing bales of cotton and other fabrics.
MENZIES, JOHN, the elder -	1051	7th April 1869	Shuttles.
MENZIES, JOHN, the younger -	1501	7th April 1869	Shuttles.
MEREDITH, ALBAN - - -	1317	28th April 1869	Manufacture of iron and steel.
MERLETT, LEOPOLD - - -	2388	10th Aug. 1869	A globular-cylinder-manometer with double capillary lock.
MERRICK, JOHN MUDGE (junior)	222	25th Jan. 1869	A composition or compound and a mode or process of treating and moulding the same (such compound being for various useful purposes in the arts or for the manufacture of various useful or ornamental articles).
MERRILL, JOSHUA - - -	1178	16th April 1869	Improvements in the manufacture of heavy hydrocarbon oils and in apparatus used therein. (Patented by George Tomlinson Bousfield.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MERRIMAN, CORYDON CHARLES	3724	23rd Dec. 1869	Traction engines. (Patented by Henry Edward Newton.)
MERRITT, CHARLES HENRY -	1449	12th May 1869	Apparatus for basting of meat and other things while being roasted.
MERTENS, CONSTANT - -	2099	12th July 1869	An improved construction of cartridge box. (Communicated by Lieutenant-Colonel Canterac.)
MESNIL, BARON OSCAR DE -	2064	9th July 1869	Means or apparatus for propelling canal boats and other vessels. (Patented by Hunter Henry Murdoch.)
MESSENGER, GEORGE - -	2861	2nd Oct. 1869	An improved penholder or reservoir writing instrument.
METCALF, AARON - - -	899	24th March 1869	Mules for spinning.
METCALF, GEORGE - - -	2471	18th Aug. 1869	Furnaces for obtaining lead from its ores.
METCALF, JOHN - - -	899	24th March 1869	Mules for spinning.
METCALF, JOHN - - -	2630	7th Sept. 1869	Mules for spinning.
METCALF, WILLIAM - - -	2138	15th July 1869	Improvements in coiled springs and in the machinery employed for making the same. (Patented by Charles Denton Abel.)
METCALFE, AARON - - -	225	25th Jan. 1869	Construction of mules for spinning.
METCALFE, JOHN - - -	225	25th Jan. 1869	Construction of mules for spinning.
MEUNIER, JOSEPH - - -	2626	6th Sept. 1869	Velocipedes. (Patented by William Robert Lake.)
MEURIN, LEO - - -	3090	23rd Oct. 1869	Clocks and other instruments for measuring time.
MEWBURN, JOHN CLAYTON -	3151	30th Oct. 1869	A new or improved photographic process for preparing printing surfaces. (Communicated by E. Rye.)
MEWBURN, JOHN CLAYTON -	3152	30th Oct. 1869	Apparatus for feeding boilers and for raising and forcing fluids generally. (Communicated by Alexander Friedmann.)
MEWBURN, JOHN CLAYTON -	3452	29th Nov. 1869	Improvements in obtaining motive-power and in apparatus employed therein. (Communicated by Jules Leopold Romuald Boutrouille and Jean Baptiste Henne.)
MEYRIGNAC, HENRI PAUL DE	3531	7th Dec. 1869	A new or improved tubular apparatus for brushing and wet-rubbing hair.
MEZ, CHARLES - - -	3684	20th Dec. 1869	Improved garments to be worn next the skin for sanitary purposes. (Patented by Edward Thomas Hughes.)
MICHAUX, JULIUS VALENTINE	3220	9th Nov. 1869	An improved method or means of securing corks in bottles. (Communicated by Henry Scholfield.)
MICHEL, MARIUS - - -	1789	8th June 1869	Improvements in aerial navigation and in apparatus employed therefor.
MICHELMORE, WILLIAM HENRY	602	26th Feb. 1869	Spring hinges.
MICHIE, CHRISTOPHER YOUNG	2255	24th July 1869	Pillars or standards for straining and supporting wires for fences and other useful purposes.
MICKELTHWATE, JOHN - -	2614	4th Sept. 1869	Velocipedes. (Patented by Friedrich Heinrich Wilhelm Heuer.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MIDDLEMISS, GEORGE ANDREW	2951	11th Oct. 1869	An improvement in and apparatus for with-drawing water or other fluids in as pure a condition as possible from wells, cisterns and other places where the water or other fluid is mixed with foreign matter, also to prevent the choking up of the pumps and other instruments usually used for drawing off water and other fluids.
MIDGLEY, ROBERT JOHN -	2444	16th Aug. 1869	Machinery or apparatus for spinning and doubling or twisting worsted, silk or other fibrous substances.
MIGNON, JEAN BAPTISTE JAVA	388	8th Feb. 1869	An improved manometro-barometric apparatus and vacuum gauge, applicable also as a safety valve. (Patented by Bristow Hunt.)
MILBANK, ISAAC MORRIS -	1490	15th May 1869	An improvement in cartridges for breech-loading fire-arms.
MILBURN ROBERT - - -	3469	30th Nov. 1869	Drying machines suitable for drying ears of corn, grain, seeds, malt, spent hops, brewers' and distillers' grains and other materials.
MILES, DAWSON - - -	3396	24th Nov. 1869	An improved mode of and apparatus for lighting and extinguishing gas by electricity. (Communicated by the "New England Electric Gas Lighting Company" (Incorporated).)
MILLAN, JOHN M ^c - -	1562	20th May 1869	Preservation of iron and steel and structures composed thereof.
MILLAR, JOHN - - -	240	26th Jan. 1869	Manufacture of envelopes.
MILLAR, JOHN EDWARD -	2143	16th July 1869	Machinery or apparatus to be applied to the teazles or cards employed for raising the nap of woollen cloth.
MILLER, DANIEL - - -	723	9th March 1869	Improved means for rendering walls and other exposed surfaces impervious to the action of water or moisture, and to preserve them from atmospheric and other destroying influences or causes.
MILLER, JAMES H. - -	1811	12th June 1869	An improved construction of steam gauge. (Patented by George William Howe.)
MILLER, JOHN - - -	2271	27th July 1869	Improvements in or in addition to the mariner's compass.
MILLER, JOSEPH AUGUSTUS -	1079	9th April 1869	Improvements in the construction of steam-boilers and in means for removing sediment and impurities therefrom, and in the method of introducing feed-water thereto, part of such improvements being applicable to surface condensers.
MILLER, JOSEPH AUGUSTUS -	3139	29th Oct. 1869	Construction of steam generators and surface condensers.
MILLER, RICHARD KERR -	3337	19th Nov. 1869	Pumps.
MILLIKEN, GEORGE F. - -	1136	13th April 1869	Machinery or apparatus for making compound telegraph wire or conductors. (Patented by John Henry Johnson.)
MILLS, BENJAMIN JOSEPH [BARNARD.]	472	16th Feb. 1869	Brick-making machinery. (Communicated by Messieurs Knight Brothers.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MILLS, BENJAMIN JOSEPH [BARNARD.]	548	22nd Feb. 1869	Manufacture of artificial stone. (Communicated by William Munroe.)
MILLS, BENJAMIN JOSEPH [BARNARD.]	933	27th March 1869	Certain new and useful improvements in processes and apparatus for extracting oleaginous matter from vegetable, animal or mineral substances in the preparation of material for distillation and the manufacture of starch, sugar and fertilizing agents. (Communicated by Thomas Sim and Elias Smith Hutchinson.)
MILLS, BENJAMIN JOSEPH [BARNARD.]	978	31st March 1869	Envelopes. (Communicated by Louis Laurent Felix Courtois.)
MILLS, BENJAMIN JOSEPH [BARNARD.]	1131	13th April 1869	Improvements in the manufacture of boots and shoes, and in machinery employed therein. (Communicated by Everett Preston Richardson.)
MILLS, BENJAMIN JOSEPH [BARNARD.]	1443	11th May 1869	Improvements in casting metals under pressure and in apparatus and appliances therefor. (Communicated by John Joseph Charles Smith and Jesse Albert Locke.)
MILLS, BENJAMIN JOSEPH [BARNARD.]	1701	2nd June 1869	A low water indicator or alarm for boilers. (Communicated by Hiram Kimball.)
MILLS, BENJAMIN JOSEPH [BARNARD.]	1766	8th June 1869	Obtaining lithographic compositions or printing surfaces. (Communicated by Charles Auguste Barthélemy Loire.)
MILLS, BENJAMIN JOSEPH [BARNARD.]	2133	15th July 1869	An improved process and apparatus for annealing metals. (Communicated by James Morgan Bottom.)
MILLS, BENJAMIN JOSEPH [BARNARD.]	2346	5th Aug. 1869	Meters for measuring liquids and gases. (Communicated by William Hamilton and Hiram Kimball.)
MILLS, BENJAMIN JOSEPH [BARNARD.]	3144	29th Oct. 1869	Machinery for manufacturing cigars. (Communicated by John Wettstein and John Thomas Hennamas.)
MILLS, BENJAMIN JOSEPH [BARNARD.]	3535	7th Dec. 1869	Means for securing bales of fibrous and other substances. (Communicated by Allan McDougall Clark.)
MILLS, DANIEL - - -	1814	14th June 1869	Sewing-machines chiefly designed for sewing the outer soles to the welts of boots and shoes. (Patented by William Robert Lake.)
MILLS, DANIEL - - -	1823	14th June 1869	Machines for sewing boots and shoes. (Patented by William Robert Lake.)
MILLS, DANIEL - - -	3024	16th Oct. 1869	Looms for weaving.
MILLS, WILLIAM WOOD - -	237	26th Jan. 1869	Improvements in supporting and fixing window-sashes, which improvements are also applicable to the supporting and fixing of the windows of railway and other carriages, and suspended doors and shutters.
MILLWARD, EDWARD - -	1563	20th May 1869	Lock spindles and door knobs to be used therewith.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MILLWARD, JOHN - - -	214	23rd Jan. 1869	Machines for quarrying and sawing stone or minerals. (Communicated by Curtis Orange Luce, Cyrel Warrington Green and Cyrenius Metcalf Willard.)
MILNER, EDWARD - - -	2443	16th Aug. 1869	An improved method of producing white pigments from lead.
MILNS, JOHN CLARKSON -	2307	31st July 1869	Improvements in pins, pirns or bobbins for shuttles, and in shuttles for pins, pirns or bobbins used in looms for weaving.
MINNS, HENRY ROYALL -	2759	22nd Sept. 1869	Improved mechanism for locking or securely connecting the doors of safes, strong rooms and other like depositories to the frames thereof.
MINNS, HENRY ROYALL -	3271	12th Nov. 1869	Letter pillar posts.
MINTON, ALFRED - - -	3159	30th Oct. 1869	Electro-coating iron and other metals.
MITCHELL, ANDREW - - -	704	8th March 1869	Improvements in cutting or dressing stone, and in the machinery or apparatus employed therefor.
MITCHELL, ANDREW - - -	3488	2nd Dec. 1869	Caissons or apparatus to facilitate the building of bridge piers and similar structures under water.
MITCHELL, JOHN - - -	2365	7th Aug. 1869	Manufacture of "Marseilles quilts."
MITCHELL, JONATHAN - -	2439	16th Aug. 1869	Kilns for burning bricks, lime and articles of earthenware.
MITCHELL, JOSEPH - - -	2473	18th Aug. 1869	Machinery for forging, stamping, tilting, swaging, hammering or planishing metals.
MITCHELL, WILLIAM - - -	398	9th Feb. 1869	Improvements in the manufacture of felt carpeting and in the machinery or apparatus employed for such manufacture.
MITCHELL, WILLIAM - - -	1545	19th May 1869	Improvements in the manufacture of felted cloth and in the machinery or apparatus employed in such manufacture.
MITCHELL, WILLIAM - - -	1593	24th May 1869	Certain improvements in the method or process of grinding metallic articles and in the mechanism connected therewith.
MOERATH JOHANN NEPOMUC	1238	22nd April 1869	A ship-weir or moveable dam for cleaning and appropriating the bed or course of rivers or other running navigable streams. (Patented by George White.)
MOHR, CHARLES - - -	2699	15th Sept. 1869	Manufacture of cages for birds, squirrels and other animals.
MOLE, CHARLES - - -	3228	9th Nov. 1869	Manufacture of boots and shoes.
MOLE, FREDERIC MAJOR -	2216	21st July 1869	Manufacture of matchets and cutlasses.
MOLE, NATHANIEL - - -	2010	3rd July 1869	Boots and shoes.
MOLESWORTH, GEORGE MILL [FREDERICK.]	3730	24th Dec. 1869	The construction of improvements in the rails employed with grip wheels for facilitating the working of traction engines.
MOLLAND, GEORGE - - -	1876	18th June 1869	Axle-boxes for the wheels of carriages.
MONCKTON, EDWARD HENRY [CRADOCK.]	1890	19th June 1869	Manufacture of iron and steel.
MONCKTON, EDWARD HENRY [CRADOCK.]	2435	14th Aug. 1869	Improvements in agricultural machinery and in appliances for harvesting and preserving crops.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MONCKTON, EDWARD HENRY [CRADOCK.	2943	9th Oct. 1869	Improvements in railways, in motive and locomotive power.
MONCKTON, EDWARD HENRY [CRADOCK.	2944	9th Oct. 1869	Guns, cartridges and projectiles.
MONCKTON, EDWARD HENRY [CRADOCK.	3147	30th Oct. 1869	Electricity and means of telegraphing.
MONCRIEFF, ALEXANDER -	739	10th March 1869	Mounting and working ordnance on the "Moncrieff" system.
MONCRIEFF, ALEXANDER -	2539	27th Aug. 1869	Improvements in the means and apparatus for absorbing, storing and utilizing the force of recoil of ordnance, and in applying and working covers, roofs or shields to gun platforms.
MOND, LUDWIG - - -	1080	7th April 1869	Utilizing products arising from soda and potash waste.
MONESTIER, FRANÇOIS ROCH [CHARLES.	1483	14th May 1869	An improvement in liquids for the lubrication of sheep's or other wool or other animal textile fibrous materials.
MONTAGU, CHARLES - -	2880	5th Oct. 1869	An improvement in umbrellas, parasols and sunshades.
MONTGOMERY, JAMES - -	2026	5th July 1869	Improvements in the manufacture of bar iron and in the machinery for rolling the same into various forms. (Patented by William Edward Newton.)
MONTGOMERY, JAMES - -	2050	7th July 1869	Converting or puddling furnaces for decarbonizing iron. (Patented by William Edward Newton.)
MONTIGNY, ANTOINE ETIENNE	1169	15th April 1869	Motive-power engines and steam generators. (Patented by John Henry Johnson.)
MOODY, JOHN - - -	584	25th Feb. 1869	Means and apparatus for mooring vessels or floating bodies.
MOORE, CHARLES - - -	1384	5th May 1869	An improved screw propeller for ships.
MOORE, CHARLES - - -	1490	14th May 1869	Improvements in the manufacture of knives and forks, and in handles for the same. (Patented by James Theodore Griffin.)
MOORE, CHARLES C. - -	2179	19th July 1869	An improved blotter or ink absorber. (Patented by Victor Eugene Manger.)
MOORE, LEWIS GEORGE - -	512	19th Feb. 1869	Construction of feathering sails for wind-mills.
MOORE, THOMAS - - -	72	9th Jan. 1869	Rotary engines which may be used as pumps or water meters.
MOORE, THOMAS - - -	594	26th Feb. 1869	Machinery for obtaining and applying power applicable to the raising and lowering of weights and to all other purposes where power is required.
MOORE, THOMAS - - -	3157	30th Oct. 1869	Apparatus for raising and lowering weights.
MOORE, THOMAS - - -	3586	11th Dec. 1869	Certain improvements in knobs for doors, bedsteads and other purposes.
MOORE, THOMAS - - -	3608	14th Dec. 1869	Certain improvements in castors for tables, sofas, pianos and other purposes.
MOORE, WILLOUGHBY MONT- [GOMERY.	1550	19th May 1869	Caps or covers for the tops of bottles and other like receptacles.
MOORHEAD, JOHN EDWARD -	2668	11th Sept. 1869	Certain improvements in jacquard machines.
MORE, JAMES - - -	3529	7th Dec. 1869	A new or improved arrangement of apparatus for forcing and projecting liquids and fluids.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MORE, JOHN - - -	2934	9th Oct. 1869	Preparation of oils for painting or other purposes.
MORE, JOHN WALTER - -	2791	25th Sept. 1869	Means or apparatus for clipping horses and other animals.
MORE, JOHN WALTER - -	3126	28th Oct. 1869	Means or apparatus for clipping horses and other animals.
MOREAU, PIERRE - - -	2677	13th Sept. 1869	An improved apparatus for preventing liquids in ebullition from boiling over. (Patented by William Edward Gedge.)
MOREAUX, VICTOR - - -	3694	21st Dec. 1869	A self-acting apparatus for preventing accidents from steam machinery. (Patented by William Edward Gedge.)
MORELAND, EBENEZER BELL -	533	20th Feb. 1869	An improved compound for glazing or "finishing" linen-faced paper used in the manufacture of collars and cuffs, and for other purposes.
MORELAND, RICHARD, the [younger.	1914	23rd June 1869	Improvements in steam rollers, also partly applicable to traction engines.
MORELL, BERNARD BENVE- [NUTO DE.	3610	14th Dec. 1869	An improved method of raising navigable vessels or other heavy bodies above the surface of the water.
MOREWOOD, EDMUND - -	349	4th Feb. 1869	Manufacture of tin and terne plates.
MOREWOOD, EDMUND - -	942	29th March 1869	Coating metals.
MORGAN, DAVID - - -	3354	20th Nov. 1869	Manufacture of lubricating oil or grease.
MORGAN, GEORGE HENRY -	441	12th Feb. 1869	Carriages.
MORGAN, GEORGE WRIGHT -	2496	21st Aug. 1869	Life buoys.
MORGAN, JAMES VAUGHAN -	1719	3rd June 1869	Manufacture of crucibles and other refractory articles or vessels. (Patented by Walter Vaughan Morgan.)
MORGAN, JOHN WALTER -	2784	24th Sept. 1869	Ships' and mooring anchors.
MORGAN, WALTER VAUGHAN	1719	3rd June 1869	Manufacture of crucibles and other refractory articles or vessels. (Communicated by John L. Hall and James Vaughan Morgan.)
MORISON, ROBERT JOSEPH -	1081	9th April 1869	Presses for compressing and packing cotton, wool, hay, hides and other fibrous and plastic substances. (Communicated by Messrs. Joseph H. Adams and Coombs.)
MORITZ, HERMANN - -	296	30th Jan. 1869	A new file-planing machine. (Patented by Edward Thomas Hughes.)
MORITZ, HERMANN - -	297	30th Jan. 1869	A new file-cutting machine. (Patented by Edward Thomas Hughes.)
MORL, JAMES HANCOCK - -	532	20th Feb. 1869	Improvements in hair-cutting machines, also applicable to clipping or shearing sheep and other animals.
MORLOT, JEAN PROSPER -	1194	19th April 1869	An improved apparatus to manufacture the rims of hats. (Patented by Henri Adrien Bonneville.)
MORRALL, ABEL - - -	680	6th March 1869	An improved needle threader or instrument for threading needles.
MORRELL, ROBERT WILSON -	1954	28th June 1869	Manufacture of combined woven and felted fabrics.
MORRELL, ROBERT WILSON -	2336	4th Aug. 1869	A new or improved textile fabric.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MORRIS, JOHN - - -	1363	4th May 1869	A new or improved agricultural implement for forming the surface of the ground into complete ridges, and at the same time depositing manure and sowing seed therein.
MORRIS, RICHARD - - -	1107	10th April 1869	Saws for cutting slate, stone, iron or other metals or materials.
MORRIS, WILLIAM - - -	1581	21st May 1869	Connecting and securing together the rails of railways.
MORRIS, WILLIAM - - -	2237	23rd July 1869	Points or switches for tramways. (Communicated by William Sheldon.)
MORRIS, WILLIAM - - -	2661	10th Sept. 1869	A new and improved method of and apparatus or appliances for the manufacture of cigars. (Communicated by David Jessurun.)
MORRIS, WILLIAM - - -	2886	5th Oct. 1869	Machinery to be employed for combing wool.
MORRIS, WILLIAM - - -	3683	20th Dec. 1869	Permanent way of railways and tramways.
MORRISON, JAMES - - -	2967	12th Oct. 1869	Improvements in the fire-place and grate of puddling furnaces, mill furnaces and other reverberatory and boilergrate furnaces.
MORRISON, JAMES DARSIE -	849	20th March 1869	Improvements in heating and ventilating buildings and ships by apparatus for warming, circulating and purifying air and water, and for employing the same as sanitary agents, also applicable for cooking purposes.
MORT, THOMAS SUTCLIFFE -	2245	23rd July 1869	Refrigerating and freezing apparatus. (Patented by William Mort.)
MORT, WILLIAM - - -	2245	23rd July 1869	Refrigerating and freezing apparatus. (Communicated by Thomas Sutcliffe Mort and Eugene Dominique Nicolle.)
MORTEN, THOMAS HONOR -	340	4th Feb. 1869	Improvements in the construction of organs and in the application of electricity and hydraulics thereto.
MÖRTH, FRANZ - - -	179	20th Jan. 1869	Improvements in the construction and arrangement of steam-boilers and in their furnaces, grates and flues. (Patented by Frederick Arthur Paget.)
MORTLOCK, THOMAS - - -	111	14th Jan. 1869	Apparatus for levelling, furrowing and dressing millstones.
MORTON, ALEXANDER - - -	456	15th Feb. 1869	Improvements in the lateral action or induction of fluids and in the apparatus or mechanism employed therefor, known as "Morton's ejector condenser."
MORTON, GEORGE LEOPOLD -	2782	24th Sept. 1869	An improved method of stoppering bottles intended to contain effervescing liquids.
MORTON, ROBERT - - -	575	24th Feb. 1869	Apparatus used in the manufacture of gas.
MORTON, ROBERT - - -	3613	14th Dec. 1869	Improvements in refrigerators or apparatus for cooling liquids, which improvements are also applicable to distillation and surface condensation.
MOSELEY, CHARLES - - -	1516	18th May 1869	Construction of india-rubber bags for the manufacture of felt hats.
MOSELEY, JOHN - - -	3362	20th Nov. 1869	Improvements in the mode of warming feet and in apparatus for this purpose.
MOSELEY, JOSEPH - - -	3445	29th Nov. 1869	Manufacture of calico printers' blankets.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MOSELEY, OSWALD - - -	1304	28th April 1869	Construction and manufacture of smoking-pipes.
MOSLEY, AARON - - -	3243	11th Nov. 1869	Lace machinery.
MOSS, ALFRED WILLIAM -	1826	15th June 1869	Brims or sunshades for attaching to hats or caps.
MOSS, EDWARD - - -	3621	15th Dec. 1869	Kilns or apparatus for the manufacture of malt. (Communicated by Charles Theodore Klemm.)
MOTAY, CYPRIEN MARIE [TESSIÉ DU.	1617	26th May 1869	Bleaching vegetable fibres, threads and fabrics. (Patented by Clinton Edgcumbe Brooman.)
MOTAY, CYPRIEN MARIE [TESSIÉ DU.	2035	6th July 1869	Apparatus for heating and distilling water for boiler and other purposes. (Patented by Clinton Edgcumbe Brooman.)
MOULIN, LOUIS ARMAND -	272	28th Jan. 1869	An improved press for stamping letters, books and documents with ink or other coloring matter.
MOULY, LÉONIDE - - -	2677	13th Sept. 1869	An improved apparatus for preventing liquids in ebullition from boiling over. (Patented by William Edward Gedge.)
MOUNT, LEONARD - - -	3412	25th Nov. 1869	Machinery or apparatus for "filling" match splints or other splints, whether made of wood, wax, glass or of any other material.
MOUNTAIN, BENJAMIN - -	220	23rd Jan. 1869	Improved appliances to be used in the manufacture of boots and shoes.
MOUTRIE, WILLIAM FREDERICK [COLLARD.	562	23rd Feb. 1869	Pianofortes.
MOYON, HENRI NICOLAS -	2479	19th Aug. 1869	Machinery for the manufacture of coverings for the feet, together with apparatus and instruments connected therewith.
MUIR, ALFRED - - -	1263	24th April 1869	Stocks and dies for screwing bolts and other articles.
MUIR, ANDREW - - -	951	30th March 1869	Velocipedes.
MUIR, CHARLES SAMUEL [WALKER.	2559	28th Aug. 1869	Improvements in safety apparatus for steam-boilers, in apparatus to provide for and regulate the admission of air to steam-boiler and other furnaces, and in apparatus to provide for the escape of water from steam pipes.
MUIR, MATTHEW ANDREW -	2068	9th July 1869	Looms for weaving.
MUIRHEAD, LEWIS POTTER -	3128	28th Oct. 1869	Apparatus for raising sunken ships and other submerged weights.
MULLER, ALOÏSE - - -	1180	16th April 1869	Improvements in fire-arms and in elevation sights for the same. (Patented by John Henry Johnson.)
MÜLLER, AUGUSTE DE - -	1999	2nd July 1869	Mode of and materials for preparing corks for rendering them impermeable under the action of wines and other liquids, either when charged with gases or not. (Patented by Charles Denton Abel.)
MULLER, EMILE - - -	908	25th March 1869	Manufacture of iron and steel. (Patented by John Henry Johnson.)
MÜLLER, GEORG - - -	1202	20th April 1869	An improved preparation of materials for cleansing wool, cotton, linen and other like fibrous substances. (Patented by Leopold Goetz.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MÜLLER, HERMANN - -	3399	24th Nov. 1869	Apparatus for moving or transporting railway carriages and other heavy bodies from place to place. (Patented by Michael Henry.)
MULLER, JAN ANTHONY -	2648	8th Sept. 1869	Improvements in apparatus for measuring and registering the flow of water and other liquids, part of which improvements is applicable to measuring and registering the flow of gases.
MULLER, TEILE HENRY - -	3754	28th Dec. 1869	Sectional steam-boilers. (Patented by William Robert Lake.)
MULLINER, FRANCIS - -	1172	16th April 1869	Construction of wheeled carriages.
MULLINER, HENRY - -	478	16th Feb. 1869	An improved method of hanging broughams and other similar carriages.
MULLONEY, SAMUEL WHITE- [HALL.	413	10th Feb. 1869	An improved manufacture of surgical bandage.
MÜNCH, JOSEPH - - -	1638	28th May 1869	An improved box for enclosing portraits and photographic cartes. (Patented by Henri Adrien Bonneville.)
MUNCH, JOSEPH - - -	3117	27th Oct. 1869	An improved box for enclosing portraits and photographic cartes. (Patented by Henri Adrien Bonneville.)
MUNNS, HENRY TURNER -	1913	22nd June 1869	Portable sketching camera obscuras.
MUNRO, ARCHIBALD - -	494	18th Feb. 1869	Tools and machinery employed for cutting stone, slate, marble, rock and other substances.
MUNRO, ARCHIBALD - -	1573	21st May 1869	Improvements in treating certain metallic substances and certain metallic articles, part of which improvements are also applicable to the construction of tools for cutting stone, slate, marble and other similar materials.
MUNRO, ARCHIBALD - -	3053	20th Oct. 1869	Cutlery, edge tools, agricultural and other implements.
MUNRO, ROBERT WILLIAM -	1069	8th April 1869	Markers for whist and other games.
MUNROE, WILLIAM - -	548	22nd Feb. 1869	Manufacture of artificial stone. (Patented by Benjamin Joseph Barnard Mills.)
MURDOCH, HUNTER HENRY -	219	23rd Jan. 1869	Improvements in the smelting of copper and in apparatus to be used therein. (Communicated by John Dixon.)
MURDOCH, HUNTER HENRY -	2084	9th July 1869	Means or apparatus for propelling canal boats and other vessels. (Communicated by Baron Oscar de Mesnil and Max Eyth.)
MURDOCH, HUNTER HENRY -	3524	6th Dec. 1869	Improvements in and apparatus for forming and joining the ends of iron and other tubes or pipes. (Communicated by Louis Alexandre Farjon.)
MURPHY, FRED - - -	813	17th March 1869	Improved tapes for venetian window-blinds, for ribbons, hatbands and similar articles, and for improved looms and apparatus for weaving them.
MURRAY, ANDREW JOHN -	1406	7th May 1869	Improvements in reaping and mowing machines, parts of which improvements are applicable to other machines.
MURRAY, CHARLES HENRY -	2644	8th Sept. 1869	Manufacture of screw propellers.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
MURRAY, GEORGE WILSON -	2255	24th July 1869	Pillars or standards for straining and supporting wires for fences and other useful purposes.
MURRAY, GEORGE WILSON -	2343	5th Aug. 1869	Means or apparatus employed in ploughing and tilling land.
MURRAY, PETER - - -	2155	17th July 1869	Rocking fire bars for steam-boiler and other furnaces.
MURRAY, PETER - - -	2069	12th Oct. 1869	Improvements in fastening or securing the joints of belts and in the means employed therefor. (Patented by William Lincoln.)
MURRAY, RICHARD - - -	3161	1st Nov. 1869	Machinery for doubling yarns or threads.
MURRAY, THOMAS - - -	3009	15th Oct. 1869	Improvements in the burning of liquid carbons, as the tarry residues left in the refining of mineral oils, as a fuel in furnaces, and in the construction and arrangement of apparatus and furnaces therefor.
MUSGRAVE, SAMUEL HENRY -	3063	21st Oct. 1869	The manufacture of needle and other cases from opaque glass tubing of various colours, fitted with a peculiar metal spring slide, scoop and cap in one.
MUSGROVE, GEORGE - - -	1904	22nd June 1869	A new or improved apparatus for indicating signals in mines or shafts or in other places.
MUSTARD, JOHN - - -	3465	30th Nov. 1869	Machinery for feeding carding-engines.
MUTERSE, JEAN MARIE - -	1661	29th May 1869	A novel liquefiable compound substance to be used for extinguishing fires.
MYERS, HENRY - - -	1412	8th May 1869	Certain improvements in doors for furnaces of locomotive and other boilers.
MYERS, JAMES JOHN - - -	568	24th Feb. 1869	A novel method of enabling passengers to warn railway servants in charge and during the running of a train, of anything dangerous to their lives and welfare, and to indicate to the guard promptly the carriage and compartment from which such warning shall have been caused, also to enable the driver to know immediately if any portion of his train of carriages has broken away or been disconnected from any cause.
MYERS, JOHN - - -	2937	9th Oct. 1869	Looms for weaving.
MYERS, SOLOMON - - -	514	19th Feb. 1869	Improvements in churns, also in apparatus for whipping or beating eggs and performing other similar operations.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
N.			
NABB, WILLIAM M ^c - -	1864	17th June 1869	Fasteners for hands and the modes or methods of applying the same.
NAGEL, AUGUST CHRISTIAN -	1091	9th April 1869	Improvements in centrifugal and other pumps and in syphons. (Patented by Peter Jensen.)
NAIRN, ANDREW - - -	3142	29th Oct. 1869	Steam carriages for common roads.
NAIRN, ANDREW - - -	3384	23rd Nov. 1869	Improvements in steam carriages for common roads and in part applicable to railway locomotives.
NANCY, JOHN JAMES - -	3021	16th Oct. 1869	Improved holders for supplying thread to sewing and embroidering machines, and apparatus for filling such holders. (Communicated by Jules Jourjon.)
NAPIER, JAMES MURDOCH -	755	11th March 1869	Machinery and apparatus for the manufacture of metallic moneys, coins and medals.
NAPIER, JOHN - - -	1875	18th June 1869	Construction of cooking ranges, stoves and grates.
NASCH, ISIDOR - - -	3249	11th Nov. 1869	Button-hole sewing-machines.
NASH, HENRY - - -	1458	12th May 1869	Coating sheets of metal with other metal.
NAYLOR, GEORGE - - -	3653	17th Dec. 1869	Apparatus for consuming smoke.
NAYLOR, WILLIAM - - -	1529	18th May 1869	Improvements in railway breaks and in apparatus connected therewith.
NEALE, EDWARD VANSITTART	3502	3rd Dec. 1869	An improved method of fastening objects capable of rotating on hinge joints.
NEALE, ROBERT - - -	3175	19th July 1869	An improvement in transfer engraving.
NEAMÉ, WILLIAM WALTER -	1924	24th June 1869	Improvements in fencing and in tools or apparatus for the manufacture thereof.
NEEDHAM, FREDERICK HOT- [HAM.	2406	11th Aug. 1869	An improved apparatus to be applied to casks or other vessels containing liquid, to preserve the liquid while on draught.
NEEDHAM, JOSEPH - - -	1397	6th May 1869	Velocipedes.
NEGRIN, PAUL - - -	3311	17th Nov. 1869	An improved arrangement for regulating the flow of liquids through pipes, valves, cocks or other conducts.
NEIGHT, WILLIAM HANSE [HAMMILTON M ^c .	777	13th March 1869	Apparatus or machinery for raising, lowering and suspending venetian or other blinds and shutters.
NEIGHT, WILLIAM HANSE [HAMMILTON M ^c .	3023	16th Oct. 1869	Venetian and other blinds.
NEILE, ALEXANDER M ^c - -	475	16th Feb. 1869	Carriage wheels.
NEILE, ALEXANDER M ^c - -	1608	25th May 1869	Carriage wheels.
NEILE, ALEXANDER M ^c - -	2575	31st Aug. 1869	Breaks for retarding the progress of wheeled carriages.
NEILL, ANDREW M ^c - -	3388	24th Nov. 1869	A safe for ships and other navigable vessels carrying mails, specie and other valuables.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
NEILL, ARCHIBALD - - -	2495	21st Aug. 1869	Improved machinery or apparatus for cutting and dressing or producing an even surface on stone, marble, slate or other substances, also for moulding or shaping and polishing such substances.
NEILL, PATRICK BENIGNUS O'	777	13th March 1869	Apparatus or machinery for raising, lowering and suspending venetian or other blinds and shutters.
NEILSON, JAMES - - -	563	23rd Feb. 1869	Applying trade marks, names and devices upon metallic capsules. (Partly communicated by Hermann Summerlein.)
NEUMEYER, JOSEF - - -	3175	2nd Nov. 1869	An improved metallic central-fire cartridge for breech-loading fire-arms. (Patented by George White.)
NEVILL, JOSEPH - - -	895	24th March 1869	Improved means of and apparatus for securing window sashes and blinds, in rendering the sashes weather tight, and in removing the strain from the lines when the sashes are closed.
NEVILL, RICHARD - - -	3667	18th Dec. 1869	Manufacture of retorts and annealing pots and stands.
NEW ENGLAND ELECTRIC GAS [LIGHTING COMPANY.]	3396	24th Nov. 1869	An improved mode of and apparatus for lighting and extinguishing gas by electricity. (Patented by Dawson Miles.)
NEWBILL, PATRICK H. - -	3208	5th Nov. 1869	Sewing-machine needles. (Patented by William Robert Lake.)
NEWBROUGH, JOHN BALLON -	3254	11th Nov. 1869	Treatment of caoutchouc, gutta-percha and analogous gums for the production therefrom of articles of utility and ornament. (Patented by John Henry Johnson.)
NEWELL, AMOS - - -	2367	7th Aug. 1869	An improved machine for sowing and covering seed and for cultivating land. (Patented by William Robert Lake.)
NEWELL, LORENZO DOW -	2430	14th Aug. 1869	Improved apparatus for diminishing the effects of the oscillation of vessels and for preventing sea sickness.
NEWELL, THOMAS FREDERICK	2905	6th Oct. 1869	Rag engines for the preparation of paper pulp. (Communicated by Jean Baptiste Lamens.)
NEWHALL, CYRUS - - -	577	24th Feb. 1869	Harvesting machines. (Patented by James Theodore Griffin.)
NEWNHAM, BENJAMIN THOMAS	1639	28th May 1869	Carriages.
NEWSOME, CHARLES - - -	85	11th Jan. 1869	Milk cans.
NEWSUM, GEORGE - - -	3681	20th Dec. 1869	Means or apparatus for pumping.
NEWTON, ALFRED VINCENT -	92	12th Jan. 1869	Knitting machinery. (Communicated by William Franz and William Pope.)
NEWTON, ALFRED VINCENT -	114	14th Jan. 1869	Reaping and mowing machinery. (Communicated by Cyrenus Wheeler, junior.)
NEWTON, ALFRED VINCENT -	230	25th Jan. 1869	An improvement in fermenting substances and germinating grain and seeds. (Communicated by Rudolph d'Heureuse.)

New]

ALPHABETICAL INDEX OF PATENTEES

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
NEWTON, ALFRED VINCENT -	244	26th Jan. 1869	Machinery for cutting veneers. (Communicated by John Nash Lyman, John Abraham Squires and Miles Aretus Lyman.)
NEWTON, ALFRED VINCENT -	308	1st Feb. 1869	Machinery for condensing alivers. (Communicated by Celestin Martin.)
NEWTON, ALFRED VINCENT -	338	3rd Feb. 1869	Sewing machinery. (Communicated by Bruno Rudolph.)
NEWTON, ALFRED VINCENT -	443	12th Feb. 1869	An improved construction of rotary engine. (Communicated by William Owen.)
NEWTON, ALFRED VINCENT -	564	23rd Feb. 1869	Fire boxes and ash pans of locomotive engines. (Communicated by Henry Livingston Lansing and George Henry Chase.)
NEWTON, ALFRED VINCENT -	843	19th March 1869	Obtaining motive-power for sewing and other machines. (Communicated by Jacob Zuckermann.)
NEWTON, ALFRED VINCENT -	1040	6th April 1869	An improved construction of baking oven. (Communicated by Joseph Vale.)
NEWTON, ALFRED VINCENT -	1088	9th April 1869	Rotary engines, pumps and meters. (Communicated by Jose Francisco Denavarro.)
NEWTON, ALFRED VINCENT -	1135	13th April 1869	An improved construction of fan blower. (Communicated by Patrick Clark and Jacob Randolph Shotwell.)
NEWTON, ALFRED VINCENT -	1199	19th April 1869	Improvements in friction matches and in match boxes or holders for containing the same. (Communicated by William Henry Rogers.)
NEWTON, ALFRED VINCENT -	1287	26th April 1869	An improved reversible parasol. (Communicated by Joseph Edmund Banks.)
NEWTON, ALFRED VINCENT -	1373	4th May 1869	Railway carriage wheels. (Communicated by Robert Beatson Hugunin and Alonzo Morris Hazen.)
NEWTON, ALFRED VINCENT -	1461	12th May 1869	Improved machinery for expressing juices from organic matters. (Communicated by Leonid Albert Thieme.)
NEWTON, ALFRED VINCENT -	1525	18th May 1869	An improved mode of and apparatus for manufacturing paper hangings. (Communicated by Charles Hermann Rost.)
NEWTON, ALFRED VINCENT -	1988	1st July 1869	An improved manufacture of nail or spike and machinery for making the same, which machinery is applicable to the forming of bolts and spikes of the ordinary construction and other articles having screw threads, and also to the straightening of shafts, rods and pipes. (Communicated by Reinhold Boeklin.)
NEWTON, ALFRED VINCENT -	2005	2nd July 1869	Improvements in apparatus for preparing flax, hemp and other fibres, and converting the same into alivers. (Communicated by Henry Lawrence, senior, James Lawrence, William Lawrence, Seabury Lawrence, George Washington Lawrence and Henry Lawrence, junior.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
NEWTON, ALFRED VINCENT -	2052	7th July 1869	Construction of chandeliers. (Communicated by Isaac Pendleton Frink.)
NEWTON, ALFRED VINCENT -	2112	13th July 1869	Mowing and reaping machines. (Communicated by James Green.)
NEWTON, ALFRED VINCENT -	2285	28th July 1869	Improved apparatus for facilitating the grinding of the knives of harvesting machines. (Communicated by Charles Coventry and William Boynton.)
NEWTON, ALFRED VINCENT -	2493	20th Aug. 1869	An improvement in the process of manufacturing paint. (Communicated by Stephen Rowe Bradley.)
NEWTON, ALFRED VINCENT -	2635	7th Sept. 1869	An improved mode of preventing the radiation of heat from steam-boilers. (Communicated by Charles M. O'Hara.)
NEWTON, ALFRED VINCENT -	2678	13th Sept. 1869	Improved means for extinguishing fires and watering streets. (Communicated by Timothy Bigelow.)
NEWTON, ALFRED VINCENT -	2698	15th Sept. 1869	Steam and caloric engines. (Communicated by Alexander Hendry.)
NEWTON, ALFRED VINCENT -	2746	21st Sept. 1869	An improvement in the treatment of spirits or alcoholic liquids for the purification of the same and apparatus therefor, a part of which invention is also applicable to the separation of the lighter from the heavier particles of oils and other liquids. (Communicated by Reuben Daniel Turner.)
NEWTON, ALFRED VINCENT -	2758	22nd Sept. 1869	Threshing machines. (Communicated by Albert Sylvanus Whittemore and John Edwin Atwood.)
NEWTON, ALFRED VINCENT -	2824	28th Sept. 1869	Improvements in the manufacture of horse-shoe nails and in the apparatus to be employed therein. (Communicated by Jacob Davy Kingsland.)
NEWTON, ALFRED VINCENT -	2954	11th Oct. 1869	An improved mode of and apparatus for manufacturing paper hangings. (Communicated by Charles Hermann Rost.)
NEWTON, ALFRED VINCENT -	3040	18th Oct. 1869	Improvements in fabrics to be used as a sacking for bedsteads and couches, and in frames for supporting the same at tension. (Communicated by George Clapp Perkins.)
NEWTON, ALFRED VINCENT -	3468	30th Nov. 1869	Improved apparatus for converting reciprocating motion into rotary motion. (Communicated by Augustin Henri Hamon.)
NEWTON, HENRY EDWARD -	856	20th March 1869	Apparatus for measuring liquids. (Communicated by Gideon Blackburn Massey.)
NEWTON, HENRY EDWARD -	857	20th March 1869	Motive-power engines. (Communicated by Joseph Edwin Culver.)
NEWTON, HENRY EDWARD -	1255	23rd April 1869	An improved mode of and apparatus for preventing the bursting of steam-boilers. (Communicated by James Craig Cochrane.)

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
NEWTON, HENRY EDWARD -	1256	23rd April 1869	Puddling iron. (Communicated by Charles Hewitt.)
NEWTON, HENRY EDWARD -	1390	6th May 1869	Improved apparatus for enlarging and reducing basso-relievos, plans or drawings and writings. (Communicated by Edmond Stanislas Leroy.)
NEWTON, HENRY EDWARD -	1565	20th May 1869	An improved portable coffee mill. (Communicated by Charles Frederic Dietz-Monna.)
NEWTON, HENRY EDWARD -	2006	2nd July 1869	Meters for measuring liquids. (Communicated by James Plumer Smith.)
NEWTON, HENRY EDWARD -	2159	17th July 1869	Breech-loading fire-arms. (Communicated by Edouard de Beaumont.)
NEWTON, HENRY EDWARD -	2160	17th July 1869	Electro-magnetic engines. (Communicated by Louis Bastet.)
NEWTON, HENRY EDWARD -	2213	21st July 1869	A new tool or apparatus for holding and driving brads. (Communicated by Mack Delorimer Converse.)
NEWTON, HENRY EDWARD -	2570	30th Aug. 1869	Furnaces. (Communicated by George Graeme Clarkson and James Lewis Paige.)
NEWTON, HENRY EDWARD -	3603	13th Dec. 1869	Net machines. (Communicated by George Bonham Lewis and William Monder Ward.)
NEWTON, HENRY EDWARD -	3724	23rd Dec. 1869	Traction engines. (Communicated by Corydon Charles Merriman and Owen Redmond.)
NEWTON, HENRY EDWARD -	3780	31st Dec. 1869	Electro-magnetic engines. (Communicated by Louis Bastet.)
NEWTON, ISAAC EDWIN -	1802	11th June 1869	Saws or other similar instruments for cutting and dressing stone. (Patented by Edward Thomas Hughes.)
NEWTON, JOHN - - -	3180	2nd Nov. 1869	Improvements in tramways and in carriages to run thereon.
NEWTON, JOSEPH - - -	502	18th Feb. 1869	Machinery for spinning flax and other fibres.
NEWTON, JOSEPH - - -	918	25th March 1869	Improvements in bobbins and in regulating the motion of bobbins in machinery for preparing, spinning, doubling, warping and reeling flax, cotton and other fibres, and in other machinery in which bobbins are used.
NEWTON, ROBERT - - -	1346	1st May 1869	Worsted spinning frames.
NEWTON, WILLIAM EDWARD -	115	14th Jan. 1869	An improved stop motion and regulator for steam pumps. (Communicated by Charles S. Westland.)
NEWTON, WILLIAM EDWARD -	228	25th Jan. 1869	Machinery for stamping and forming articles of sheet metal. (Communicated by William Dakin Grimshaw, Freeman Parker Erskine and John Breckenridge Peabody.)
NEWTON, WILLIAM EDWARD -	321	2nd Feb. 1869	Improvements in the construction of the permanent way of railroads, and in the means of securing or fastening the various parts. (Communicated by Edwin Riley Shepard and Payne Pettibone.)

New]

AND APPLICANTS FOR PATENTS OF INVENTION.

[New

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
NEWTON, WILLIAM EDWARD -	351	4th Feb. 1869	Traction railways. (Communicated by William Allen Sutton and Eugene Crowell.)
NEWTON, WILLIAM EDWARD -	442	12th Feb. 1869	Manufacture of explosive compounds. (Communicated by Alfred Nobel.)
NEWTON, WILLIAM EDWARD -	449	13th Feb. 1869	Improved apparatus for heating, applicable to generating steam, cooking food and heating for various other domestic purposes. (Communicated by Marie-Louis Adolphe Bègue and Edouard Derrien.)
NEWTON, WILLIAM EDWARD -	485	17th Feb. 1869	Improvements in adhesive stamps applicable for postal, internal revenue and other purposes or uses, a portion of which improvements is also applicable to railway passenger tickets. (Communicated by Addison Calvin Fletcher.)
NEWTON, WILLIAM EDWARD -	551	22nd Feb. 1869	Screw wrenches. (Communicated by Charles Lawrence Perkins.)
NEWTON, WILLIAM EDWARD -	586	25th Feb. 1869	Furnaces and apparatus for oxidizing and desulphurizing iron and other ores. (Communicated by William Henry Reinahl.)
NEWTON, WILLIAM EDWARD -	651	3rd March 1869	Construction of water-closets. (Communicated by John Keane and George Hunter Brown.)
NEWTON, WILLIAM EDWARD -	750	11th March 1869	Cases for holding cigars and other articles. (Communicated by Henry Belcher Wheatcroft, Samuel Bushnell Guernsey and Franklin Jackson Terrell.)
NEWTON, WILLIAM EDWARD -	751	11th March 1869	An improved attachment for adjusting cords for hanging pictures, mirrors, glasses and for other analogous purposes. (Communicated by Rudolph d'Heureuse.)
NEWTON, WILLIAM EDWARD -	896	24th March 1869	Mechanism for working heavy guns or ordnance. (Communicated by James Buchanan Eads.)
NEWTON, WILLIAM EDWARD -	1061	7th April 1869	Steam generators. (Communicated by John Benjamin Root.)
NEWTON, WILLIAM EDWARD -	1087	9th April 1869	An improved means of and apparatus for obtaining motive-power for driving various kinds of light machinery. (Communicated by William Farr Goodwin.)
NEWTON, WILLIAM EDWARD -	1134	13th April 1869	Joints for railroad rails. (Communicated by Joseph Adams.)
NEWTON, WILLIAM EDWARD -	1181	16th April 1869	An improved safety attachment to be adapted to burners for burning explosive gases for illuminating and other purposes. (Communicated by John Stephens Lipps.)
NEWTON, WILLIAM EDWARD -	1288	26th April 1869	Steam generators and condensers. (Communicated by Benjamin Talbot Babbitt.)
NEWTON, WILLIAM EDWARD -	1374	4th May 1869	Engines to be used as motors or as pumps for raising or forcing liquid or aeriform bodies. (Communicated by John Benjamin Root.)

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
NEWTON, WILLIAM EDWARD -	1426	10th May 1869	An improved process and composition for hardening common or grey cast iron, and for converting articles of iron into steel or imparting thereto a steely character. (Communicated by Byron Wilkinson Nichols.)
NEWTON, WILLIAM EDWARD -	1427	10th May 1869	Gun locks. (Communicated by Randal Duke Hay and James Madison Hill.)
NEWTON, WILLIAM EDWARD -	1509	17th May 1869	Factory sliver cans. (Communicated by Ezra Haskell.)
NEWTON, WILLIAM EDWARD -	1678	31st May 1869	A novel device for locking corks or stoppers in bottles and other necked vessels. (Communicated by Lewis Mortimer Ballard.)
NEWTON, WILLIAM EDWARD -	1762	7th June 1869	Improved apparatus for folding printed sheets of paper. (Communicated by Richard March Hoe.)
NEWTON, WILLIAM EDWARD -	1804	11th June 1869	Submarine drilling apparatus. (Communicated by Samuel Lewis and William McFarland.)
NEWTON, WILLIAM EDWARD -	1820	14th June 1869	An improved attachment for and mode of actuating ships' pumps. (Communicated by Almon Roff.)
NEWTON, WILLIAM EDWARD -	1857	16th June 1869	Improved apparatus for cleansing and preparing rags for the manufacture of paper. (Partly communicated by James Turner, Robert Turner, Archibald Turner, Malcolm Clark Turner, Thomas Clark Turner and George Moscript Turner.)
NEWTON, WILLIAM EDWARD -	2026	5th July 1869	Improvements in the manufacture of bar iron and in the machinery for rolling the same into various forms. (Communicated by James Montgomery.)
NEWTON, WILLIAM EDWARD -	2050	7th July 1869	Converting or puddling furnaces for decarbonizing iron. (Communicated by James Montgomery.)
NEWTON, WILLIAM EDWARD -	2364	7th Aug. 1869	An improved process for purifying or disinfecting alcohol and alcoholic liquors. (Communicated by Edme Jules Maumené.)
NEWTON, WILLIAM EDWARD -	2414	12th Aug. 1869	Centrifugal pumps. (Communicated by William Draper Andrews.)
NEWTON, WILLIAM EDWARD -	2569	30th Aug. 1869	Improved machinery for manufacturing nails, brads and other analogous articles. (Communicated by Edwin Lewis Brundage.)
NEWTON, WILLIAM EDWARD -	2577	31st Aug. 1869	Washing-machines. (Communicated by John Jackson Grant.)
NEWTON, WILLIAM EDWARD -	2622	6th Sept. 1869	Reaping and mowing machines. (Communicated by William Allen.)
NEWTON, WILLIAM EDWARD -	2645	8th Sept. 1869	Metallic packing for piston rods and other purposes. (Communicated by Louis Rousseau and Charles Gérard.)
NEWTON, WILLIAM EDWARD -	2685	14th Sept. 1869	An improvement in pumps. (Communicated by Joseph William Douglas.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
NEWTON, WILLIAM EDWARD -	2686	14th Sept. 1869	Furnaces and ovens or kilns. (Communicated by Professor Theodor Weiss.)
NEWTON, WILLIAM EDWARD -	2697	15th Sept. 1869	Machinery for the manufacture of felt and other cloths. (Communicated by James Thompson Sanford.)
NEWTON, WILLIAM EDWARD -	2737	20th Sept. 1869	Improved machinery for the manufacture of tape trimmings. (Communicated by Frederic Edmund Thode and Charles Henry Knoop.)
NEWTON, WILLIAM EDWARD -	2772	23rd Sept. 1869	Improved apparatus for drying grain and other granular substances. (Communicated by Alfred Robert.)
NEWTON, WILLIAM EDWARD -	2811	27th Sept. 1869	Lappet or embroidering looms. (Communicated by Nelson Kingsland Adams.)
NEWTON, WILLIAM EDWARD -	2855	1st Oct. 1869	Sewing-machines. (Communicated by Benjamin Porter Howe.)
NEWTON, WILLIAM EDWARD -	2910	6th Oct. 1869	Permanent way of railways and tramways. (Communicated by Carl Max Unger.)
NEWTON, WILLIAM EDWARD -	2916	7th Oct. 1869	An improved form of wheel for propelling ships and applicable also to pumps for raising or forcing water. (Communicated by Colin Taylor Finlayson and Alfred Colburn Loud.)
NEWTON, WILLIAM EDWARD -	3061	20th Oct. 1869	An improved mode of or process for preserving animal or vegetable substances from decay. (Communicated by Doctor Nicolas Heraray Obes.)
NEWTON, WILLIAM EDWARD -	3131	28th Oct. 1869	Drawing frames. (Communicated by Charles Wall.)
NEWTON, WILLIAM EDWARD -	3582	11th Dec. 1869	Improved apparatus for folding printed sheets of paper, and for cutting and folding printed sheets of paper as they issue from the printing machine. (Communicated by Richard March Hoe.)
NEWTON, WILLIAM EDWARD -	3615	14th Dec. 1869	Harness for looms. (Communicated by Alfred Brayman Corey.)
NEWTON, WILLIAM EDWARD -	3616	14th Dec. 1869	Rotary engines. (Communicated by Hezekiah Olney, Robert Asaph Delong, Lucius Rufus Townsend and Julius Amasa Townsend.)
NEWTON, WILLIAM EDWARD -	3722	23rd Dec. 1869	Adjusting and packing the rails of railways. (Communicated by William Louis Winans and Thomas Winans.)
NEWTON, WILLIAM EDWARD -	3723	23rd Dec. 1869	Forming the joints of the permanent way of railways or in securing or connecting the rails together so as to form a continuous rail of equal strength and rigidity throughout. (Communicated by William Louis Winans and Thomas Winans.)
NEWTON, WILLIAM EDWARD -	3737	24th Dec. 1869	Improved apparatus for and method of heating water and purifying the same for use in steam-boilers, and for other purposes for which pure water may be required. (Communicated by Edwin Ruthven Stilwell.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
NEWTON, WILLIAM EDWARD -	3762	29th Dec. 1869	Improvements in tilting vessels or utensils and in stands or supports for the same. (Communicated by John Gibson, junior.)
NEWTON, WILLIAM HENRY -	1440	11th May 1869	An improved detergent or saponaceous compound. (Patented by William Robert Lake.)
NICHOL, JOHN DAVIDSON -	496	18th Feb. 1869	Apparatus for drying and pressing printed paper.
NICHOL, PETER DALE - -	2072	9th July 1869	Steam generators or boilers for marine purposes.
NICHOLLS, HENRY MARTYN -	3510	4th Dec. 1869	Improvements in apparatus for cutting continuous paper into sheets and in piling or disposing of the same when cut.
NICHOLLS, JAMES FAWCKNER	1665	29th May 1869	Converting any dining table into a billiard table in a few minutes, without injuring it or interfering with the purpose for which it was originally designed.
NICHOLLS, SILAS - - -	1891	19th June 1869	Machinery for tilling or cultivating land, also applicable for draining purposes.
NICHOLS, BYRON WILKINSON	1426	10th May 1869	An improved process and composition for hardening common or grey cast iron, and for converting articles of iron into steel or imparting thereto a steely character. (Patented by William Edward Newton.)
NICHOLS, JOHN - - -	3405	25th Nov. 1869	Machinery for polishing yarns and threads.
NICHOLS, JOSEPH - - -	3639	16th Dec. 1869	Manufacture of wheels and pulleys.
NICHOLS, JOSEPH - - -	3766	30th Dec. 1869	Manufacture of tyres and hoops for railway wheels and other purposes.
NICHOLS, THOMAS - - -	380	8th Feb. 1869	Signal bells.
NICHOLSON, WILLIAM HENRY	1729	4th June 1869	Improvements in travelling portmanteaus and in the method of fastening the same.
NICHOLSON, WILLIAM NEW- [ZAM.	1417	10th May 1869	Hay-making machines.
NICHOLSON, WILLIAM NEW- [ZAM.	2662	10th Sept. 1869	Agricultural drills for sowing grain and seeds with or without manure, and also for sowing or distributing manure.
NICKERSON, GEORGE - -	2360	7th Aug. 1869	Apparatus for raising and stacking straw and other agricultural produce.
NICKLIN, FREDERICK - -	2590	2nd Sept. 1869	Railway chairs. (Patented by Stephen Willis.)
NICKSON, HENRY REABURN -	1039	6th April 1869	Improvements in the method of fastening and applying wood sheathing to the bottoms and sides of iron and other ships or navigable vessels, for the purpose of attaching copper, yellow metal, zinc or other sheathing thereto, parts of which improvements consist in a particular form of rivet or bolt connected therewith.
NICKSON, THOMAS - - -	1039	6th April 1869	Improvements in the method of fastening and applying wood sheathing to the bottoms and sides of iron and other ships or navigable vessels, for the purpose of attaching copper, yellow metal, zinc or other sheathing thereto, parts of which improvements consist in a particular form of rivet or bolt connected therewith.
NICOL, JOSEPH - - -	876	23rd March 1869	Envelopes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
NICOLET, FRANÇOIS - -	3570	10th Dec. 1869	Velocipedes. (Patented by William Edward Gedge.)
NICOLL, DONALD - - -	34	5th Jan. 1869	Improvements in clothing for male and female use, and in the manufacture of materials for same.
NICOLL, DONALD - - -	1008	3rd April 1869	An improved safe for food, and automatic apparatus for generating preservative and other elastic gases to be used in connection therewith and for other domestic and general purposes.
NICOLLE, EUGENE DOMINIQUE	2245	23rd July 1869	Refrigerating and freezing apparatus. (Patented by William Mort.)
NIELL, WILLIAM, the younger	3307	16th Nov. 1869	Blast-engines.
NIETSCKE, JOHN DANIEL -	2518	24th Aug. 1869	An improved coffin and mode of and means for preserving dead bodies therein.
NIMMO, JAMES BLAIR - -	1357	3rd May 1869	An improved lever compensation door and gate spring or closer.
NISSEN, HILARY NICHOLAS -	294	30th Jan. 1869	Printing bankers' cheques and similar documents.
NITSCH, JOSEPH - - -	2850	1st Oct. 1869	An improved instrument to be used for ruling lines on paper and other substances.
NOBEL, ALFRED - - -	442	12th Feb. 1869	Manufacture of explosive compounds. (Patented by William Edward Newton.)
NOBLE, WILLIAM HENRY -	2827	29th Sept. 1869	An improved aerial carriage. (Communicated by Frederick Marriott.)
NOLAN, JOHN PHILIP - -	1568	20th May 1869	Apparatus for measuring distances particularly applicable to warlike purposes.
NORBERG, JOHN ANDREW -	3089	23rd Oct. 1869	Improvements in machinery for breaking stone and ore, part of which improvements are applicable to hammers and pile-driving machines, and other machines in which weights have to be raised and suddenly dropped.
NORFOLK, RICHARD - -	1045	7th April 1869	An improved mode of and apparatus for casting screw threads on the naves of wheels and other articles.
NORMAN, JACOB CHARLES -	1722	3rd June 1869	An improved agricultural implement for digging.
NORMAN, JACOB CHARLES -	1907	22nd June 1869	An improved plough for ploughing land.
NORMAN, JOHN - - -	2791	25th Sept. 1869	Means or apparatus for clipping horses and other animals.
NORMAN, JOHN - - -	3126	28th Oct. 1869	Means or apparatus for clipping horses and other animals.
NORRIS, JOHN - - -	3393	24th Nov. 1869	Improved self-acting apparatus for placing fog signals upon railways.
NORRIS, RICHARD STUART -	615	27th Feb. 1869	An improved method of getting coal and for the machinery or apparatus connected therewith.
NORRIS, THOMAS - - -	1513	18th May 1869	Improved means and apparatus for mowing and cutting grass and other similar substances.
NORTH, EDWARD PARSONS -	112	14th Jan. 1869	Pocket railway reading lamps.
NORTHALL, JOHN KNIGHT -	3209	5th Nov. 1869	Apparatus or machinery for welding and finishing tubes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
NORTHCOTT, WILLIAM HENRY	3718	23rd Dec. 1869	Process and method of disintegrating wood.
NORTON, CHARLES DOUGLAS -	989	1st April 1869	A new and improved method of making revolving boot and shoe heels and tips.
NORTON, JAMES - - -	1517	18th May 1869	Ball and other cocks, taps and valves.
NORTON, JAMES LEE - -	489	17th Feb. 1869	Manufacture of wheaten flour.
NORTON, JAMES LEE - -	804	16th March 1869	Looms for weaving.
NORTON, JAMES LEE - -	2726	18th Sept. 1869	Looms for weaving.
NOWELL, GEORGE AUGUSTUS -	428	11th Feb. 1869	Lamps.
NOWELL, GEORGE AUGUSTUS -	2070	9th July 1869	Lamps.
NUSSEY, GEORGE HENRY -	2585	1st Sept. 1869	Machinery or apparatus for pressing woollen and other woven or felted fabrics.
NUTT, JOSEPH HASSELL -	3105	26th Oct. 1869	An improved manufacture of wrappers or envelopes used in hydraulic and other presses.
NUTTALL, FRANCIS DIXON -	848	20th March 1869	Improvements in or applicable to reverberatory furnaces.
NUTTALL, RICHARD - -	1906	22nd June 1869	Certain improvements in weaving counterpanes, quilts and other similar fabrics.
NUTTALL, ROBERT - - -	2640	8th Sept. 1869	Mules for spinning. (Partly communicated by John Burns Smith.)
NUTTALL, THOMAS - - -	1906	22nd June 1869	Certain improvements in weaving counterpanes, quilts and other similar fabrics.
O.			
O'BRIEN, EUGENE - - -	1038	6th April 1869	An improved self-feeding, discharging and registering beam-balance for weighing grain and other substances.
O'BRIEN, EUGENE - - -	2806	27th Sept. 1869	An improved self-feeding, discharging and registering beam balance for weighing grain and other substances.
O'CONNELL, EDWARD - -	987	1st April 1869	Apparatus for supplying nourishment to infants, invalids and others.
O'HARA, CHARLES M. - -	2635	7th Sept. 1869	An improved mode of preventing the radiation of heat from steam-boilers. (Patented by Alfred Vincent Newton.)
O'NEILL, PATRICK BENIGNUS	777	13th March 1869	Apparatus or machinery for raising, lowering and suspending venetian or other blinds and shutters.
OADES, EDWIN - - -	3450	29th Nov. 1869	Vent plugs.
OAKLEY, FREDERICK - -	2515	24th Aug. 1869	Construction of washers for fastening metal nuts.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
OAKLEY, JOHN THOMAS -	697	8th March 1869	Machines for grinding and surfacing rings, plates, discs and other analogous articles made of iron or steel.
OAKLEY, JOHN THOMAS -	2657	9th Sept. 1869	Machinery for grinding and surfacing rings, plates, discs and other analogous articles.
OAKMAN, SAMUEL - - -	1290	26th April 1869	Construction of smelting and other furnaces.
OBACH, THEOBALD - - -	728	9th March 1869	Improvements in fuel economizers, parts of which are applicable to joining and fixing pipes for other purposes.
OBES, NICOLAS HERRARAY -	3061	20th Oct. 1869	An improved mode of or process for preserving animal or vegetable substances from decay. (Patented by William Edward Newton.)
ODDY, SAMUEL - - -	2640	8th Sept. 1869	Mules for spinning. (Partly communicated by John Burns Smith.)
OFFORD, JAMES SHARPEN -	369	6th Feb. 1869	Apparatus for clipping and shearing the coats of horses and other animals.
ÖFFERBERG, CHARLES AN- [THONY.	3081	23rd Oct. 1869	Filters and filtering apparatus. (Communicated by Hampus Oldenburg.)
OGDEN, JOHN - - -	2203	21st July 1869	A combined tap and filter for water and other liquids.
OGDEN, KIRBY - - -	3319	18th Nov. 1869	An improved deodorizing compound to be employed in chambers or receptacles containing dead bodies or bodies affected with a contagious disease.
OGG, ALEXANDER - - -	2601	3rd Sept. 1869	Printing machines.
OLDENBURG, HAMPUS - -	3081	23rd Oct. 1869	Filters and filtering apparatus. (Patented by Charles Anthony Öfferberg.)
OLDFIELD, BENJAMIN - -	3442	27th Nov. 1869	Improvements in looms and in devices to be employed therewith for weaving.
OLDFIELD, PETER - - -	157	18th Jan. 1869	Machinery for preparing and combing wool or other fibrous substances.
OLDROYD, GEORGE - - -	3596	13th Dec. 1869	Means or apparatus employed in weaving.
OLDROYD, JOHN - - -	3596	13th Dec. 1869	Means or apparatus employed in weaving.
OLDROYD, MARK, the younger	3596	13th Dec. 1869	Means or apparatus employed in weaving.
OLIVER, GEORGE WASHINGTON	1800	10th June 1869	Improvements in the manufacture of explosive powder and in machinery to be used in such manufacture. (Communicated by Paul A. Oliver.)
OLIVER, PAUL A. - - -	1800	10th June 1869	Improvements in the manufacture of explosive powder and in machinery to be used in such manufacture. (Patented by George Washington Oliver.)
OLIVIER, — - - -	3472	1st Dec. 1869	Manufacture of soda crystals. (Patented by William Spence.)
OLIVIER, RENÉ - - -	2187	20th July 1869	Certain improvements in the manufacture and construction of velocipedes and other similar vehicles.
OLLEY, WILLIAM - - -	633	2nd March 1869	Improvements in circular saw benches, a part of which improvements is applicable to other purposes.
OLMSTED, L. H. - - -	1881	19th June 1869	An improved device for holding letters, bills and other papers. (Patented by Thomas Silver.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
OLNEY, HEZEKIAH - -	3616	14th Dec. 1869	Rotary engines. (Patented by William Edward Newton.)
OLPHERTS, RICHARD - -	1892	19th June 1869	Improvements in indigo presses and in cloths to be used therewith.
OLPHERTS, RICHARD - -	1930	24th June 1869	Knives for reaping and pruning.
OLSSON, MARTIN - - -	1893	21st June 1869	Preserving animal and vegetable substances. (Communicated by Henrik Gahn and Elof Esaias Edqvist.)
OPPENHEIMER, JOSEPH - -	3308	16th Nov. 1869	Fixing and staying telegraph posts.
ORLEY, ROBERT - - -	1583	22nd May 1869	Invalid bedsteads.
ORMISTON, JOHN WATSON -	2149	16th July 1869	Construction of blast furnaces.
ORMSON, HENRY - - -	754	11th March 1869	Boilers for hot-water apparatus and steam generating purposes.
ORR, WILLIAM - - -	98	12th Jan. 1869	Couplings and wheels for shafting and gearing.
ORR, WILLIAM - - -	2091	12th July 1869	Couplings and wheels for shafting and gearing.
ORSON, JAMES - - -	3338	19th Nov. 1869	Machinery or apparatus for geoferring and plaiting textile fabrics.
ORTRIE, NATHALIE - - (Widow Cornebois.)	1969	30th June 1869	An improved carriage spring. (Patented by William Edward Gedge.)
ORTTON, JOHN - - -	215	23rd Jan. 1869	Graduating the admission of steam to the cylinders of locomotive and other steam-engines, by means of the reversing and regulator gearing. (Communicated by William Aspley Robinson.)
OSBORN, DAVID - - -	1003	2nd April 1869	Apparatus to be employed in concrete building.
OSBORN, SAMUEL - - -	541	22nd Feb. 1869	Knives and knife bars for reaping and mowing machines.
OSBORN, SAMUEL - - -	2374	9th Aug. 1869	Knives and knife bars for reaping and mowing machines.
OSBORN, SAMUEL - - -	2977	13th Oct. 1869	Improvements relating to knife bars and knives for reaping and mowing machines.
OSBORNE, GEORGE VERRELL -	95	12th Jan. 1869	An improved ball valve or cock.
ÖSTLUND, CARL - - -	1711	3rd June 1869	Improvements in lamps for heating and lighting purposes, and in cooking and evaporating apparatus appertaining thereto.
OURY, PIERRE - - -	1227	21st April 1869	A new or improved method of and materials for the preparation of mural paintings. (Patented by Charles Denton Abel.)
OUTRAM, JAMES - - -	3626	15th Dec. 1869	Propelling vessels.
OUTRAM, JAMES - - -	3642	16th Dec. 1869	Steam motive-power engines.
OWEN, WILLIAM - - -	443	12th Feb. 1869	An improved construction of rotary engine. (Patented by Alfred Vincent Newton.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
P.			
PADDON, JOHN BIRCH - -	3395	24th Nov. 1869	Apparatus used in the manufacture of gas.
PAGE, CHARLES LINDSAY - -	2991	14th Oct. 1869	Packing cases or boxes for containing bottles or other articles.
PAGE, JOHN - - - -	357	5th Feb. 1869	Improvements in pipe joints and in cement for the same, also suitable for cementing other articles such as building materials.
PAGE, ROBERT WILLIAM - -	890	24th March 1869	Construction of garden and fire-engines for pumping and forcing water.
PAGE, THOMAS - - - -	1190	17th April 1869	Improvements applicable to rail, tramway and road locomotives.
PAGET, FREDERICK ARTHUR -	179	20th Jan. 1869	Improvements in the construction and arrangement of steam-boilers and in their furnaces, grates and flues. (Communicated by Franz Mörtz.)
PAIGE, JAMES LEWIS - -	2570	30th Aug. 1869	Furnaces. (Patented by Henry Edward Newton.)
PAILLARD, ALBERT ADOLPHE	1452	12th May 1869	Improvements in the method and process of producing impressions upon tin and terne plates and sheets of metal, and in furnaces or ovens for heating and drying plates or sheets which have received the required impressions. (Patented by Philip William Flower and Wickham Flower.)
PAIN, JAMES - - - -	170	19th Jan. 1869	An improved floor dog or flooring cramp.
PAIN, WILLIAM - - - -	170	19th Jan. 1869	An improved floor dog or flooring cramp.
PALLISER, WILLIAM - - -	1247	23rd April 1869	Screw bolts, bolt-holes, nuts and washers for armour-plated structures.
PALLISER, WILLIAM - - -	1613	26th May 1869	Improvements in vents and screw-nuts or collars for ordnance, which latter improvements are also applicable to screw bolts and nuts generally.
PALLISER, WILLIAM - - -	1933	25th June 1869	Key-fastenings for railway chairs.
PALLISER, WILLIAM - - -	2650	9th Sept. 1869	Rails for railways.
PALMER, FREDERICK OCTAVIUS	737	10th March 1869	Apparatus for conveying goods or passengers from one place to another.
PALMER, GEORGE - - - -	2015	3rd July 1869	Manufacture of biscuits.
PALMER, JAMES BRECKNOCK -	775	13th March 1869	Manufacture of matches and fusees and of surfaces to be used for igniting matches and fusees.
PALMER, JAMES BRECKNOCK -	2675	11th Sept. 1869	Manufacture of matches and fusees and of surfaces to be used for igniting matches and fusees.
PALMER, JOSEPH BREVITT -	79	11th Jan. 1869	Certain improvements relating to the sight protectors, barrel protectors and muzzle stoppers of fire-arms.
PALMER, WILLIAM ISAAC -	318	2nd Feb. 1869	Evaporating and calcining alkaline solutions which have been used to boil vegetable fibres.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent:
PALMER, WILLIAM ISAAC -	2781	24th Sept. 1869	Machinery or apparatus used in the manufacture of paper.
PANKHURST, THOMAS, the elder	344	4th Feb. 1869	Gully traps.
PANKHURST, THOMAS, the [younger.	344	4th Feb. 1869	Gully traps.
PAPPENBERGER, ANDREAS -	427	11th Feb. 1869	Construction of pianofortes.
PARHAM, WILLIAM - -	3457	29th Nov. 1869	Construction of horticultural and other buildings and structures.
PARK, DAVID BIRSE - -	1917	23rd June 1869	Improved means and apparatus for removing animal and vegetable deposits from the bottoms of vessels.
PARKER, CHAUNCEY COLTON -	1558	20th May 1869	An improvement in cord tighteners for curtain fixtures.
PARKER, EDWARD LAWLEY -	2994	14th Oct. 1869	A new or improved combined pocket corkscrew and carriage key.
PARKER, FREDERICK - -	931	27th March 1869	Locomotive engines working on the "central rail" system.
PARKER, JAMES - - -	102	13th Jan. 1869	Further improvements in motive-power apparatus applicable for propelling vessels and for preventing vessels from foundering, and for forcing water and for other purposes.
PARKES, PETER - - -	3614	14th Dec. 1869	Machinery for cutting or shaping screw nuts and the heads of bolts and for other like purposes.
PARKINSON, CHARLES BRAHAM	225	25th Jan. 1869	Construction of mules for spinning.
PARKINSON, CHARLES BRAHAM	899	24th March 1869	Mules for spinning.
PARKINSON, THOMAS - -	341	4th Feb. 1869	Improvements in and connected with doors for regulating the admission of air to furnaces.
PARKINSON, THOMAS - -	2467	18th Aug. 1869	Improvements in or connected with doors for regulating the admission of air to furnaces.
PARKINSON, WILLIAM - -	585	25th Feb. 1869	Wood-cutting machinery.
PARLOUR, JOSEPH THOMAS -	3593	11th Dec. 1869	Improvements in machinery and in the means employed in connection therewith, for raising sunken ships and other submerged bodies, and for conducting other submarine operations.
PARNALL, HENRY - - -	165	18th Jan. 1869	Construction of centres and bearings of scales, scale beams and weighing machines.
PARNALL, JOHN - - -	165	18th Jan. 1869	Construction of centres and bearings of scales, scale beams and weighing machines.
PARR, JAMES - - -	380	8th Feb. 1869	Signal bells.
PARRISH, DILLWYN - -	2919	8th Oct. 1869	Axle boxes. (Communicated by Davis Henry Dotterer.)
PARRISH, JAMES - - -	2412	12th Aug. 1869	Construction of skips, hampers and other baskets.
PARRY, JOHN - - -	1107	10th April 1869	Saws for cutting slate, stone, iron or other metals or materials.
PARRY, THOMAS - - -	2976	13th Oct. 1869	An improved drag applicable to waggons, omnibuses and other wheeled vehicles.

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AND APPLICANTS FOR PATENTS OF INVENTION.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
PARRY, THOMAS - - -	3629	15th Dec. 1869	An improved drag or brake applicable to waggons, omnibuses, carriages and other wheeled vehicles.
PARSLOW, HENRY - - -	1067	8th April 1869	An improved appliance to be used in designing the forms of certain parts of articles of apparel.
PARSONS, CHARLES CHAUNCEY	2241	23rd July 1869	Improvements in purifying alcohol and paraffine, and in the apparatus employed therein. (Patented by John Henry Johnson.)
PARSONS, THOMAS - - -	2276	27th July 1869	A new and useful mechanism, apparatus or engine to be used either in measuring water discharged from a conduit or for various other useful purposes. (Communicated by Gerard Sickels and Oliver Atkins Farwell.)
PARTINGTON, JOHN, junior -	830	18th March 1869	An improved smoke consuming apparatus.
PARTRIDGE, SAMUEL - - -	2426	13th Aug. 1869	Velocipedes.
PASH, FREDERICK - - -	3210	5th Nov. 1869	Improvements in velocipedes, particularly applicable to bicycles.
PASS, ALFRED CAPPER - - -	262	27th Jan. 1869	Improvements in the method of and apparatus for condensing and purifying metallic and other fumes, vapours, gases and smoke, and in obtaining oxide of zinc.
PATÉNE, ALEXANDRE - - -	2299	31st July 1869	Process of reproducing on wood all engravings through aqua fortis.
PATERSON, ROBERT - - -	847	20th March 1869	Apparatus for containing, treating, preserving, cooling, withdrawing and conveying fermentable and aerated beverages.
PATERSON, ROBERT - - -	3561	9th Dec. 1869	Collapsible casks or vessels for containing fermentable and aerated beverages.
PATTERSON, MICHAEL - - -	3433	27th Nov. 1869	Certain improvements in apparatus for straining paper pulp.
PATTINSON, JOHN - - -	1070	8th April 1869	Utilizing the ammoniacal skimmings obtained in galvanizing iron.
PAUL, JOSEPH FROST - - -	3342	20th Nov. 1869	Certain improvements in the mode of laying or constructing wooden pavements for streets, etc., as well as a new and useful process for preparing wood for pavements.
PAUL, SETH DANIEL - - -	363	5th Feb. 1869	Mules for spinning yarns. (Patented by Alexander Clark.)
PAYNE, JOHN BELLAMY - - -	1445	11th May 1869	Improvements in the fittings for roller blinds, parts of which improvements are also applicable for suspending picture frames and for coupling, joining or connecting together the ends of ropes, cords or bands.
PAYNE, WILLIAM - - -	2494	21st Aug. 1869	Improvements in and apparatus for extinguishing fires in the holds or below decks of navigable vessels, whether arising from spontaneous combustion or other cause.
PAYNE, WILLIAM - - -	3002	15th Oct. 1869	An improved packing applicable for buckets, pistons and stuffing-boxes, and for all other purposes where packing is employed.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
PEABODY, JOHN BRECKEN- [RIDGE.	228	25th Jan. 1869	Machinery for stamping and forming articles of sheet metal. (Patented by William Edward Newton.)
PEARCE, SHADRACH HOUGHTON	1797	10th June 1869	An improved covering for floors and other surfaces. (Patented by William Robert Lake.)
PEARCE, THOMAS MASSEY -	1405	7th May 1869	Steam and hydraulic apparatus for pumping, forcing and measuring water and for raising weights.
PEARSON, JAMES - - -	1807	12th June 1869	Improved apparatus or appliances to be employed for sizing and warping yarns and for weaving.
PEARSON, MASON - - -	3024	16th Oct. 1869	Looms for weaving.
PEDLEY, GEORGE JOSEPH -	1645	28th May 1869	An improved motive-power for driving velocipedes, sewing-machines and for other similar purposes.
PEEBLES, DAVID BRUCE -	1102	10th April 1869	Gas meters.
PEEL, JOHN - - -	2802	27th Sept. 1869	Looms for weaving.
PEERLESS, ALFRED JAMES -	95	12th Jan. 1869	An improved ball valve or cock.
PERT, SAMUEL JOSEPH - -	20	4th Jan. 1869	Valves or cocks.
PRET, SAMUEL JOSEPH - -	1149	14th April 1869	Machinery for producing moulds and cores to be used in casting metals.
PEILLARD, CHARLES JEAN [BAPTISTE.	3015	15th Oct. 1869	An improved elastic horse shoe. (Patented by William Edward Gedge.)
PEIRCE, JAMES - - -	3480	1st Dec. 1869	An improved compound machine for cutting tenons and mortices, and sawing wood.
PELLETIER, EDOUARD LE -	3317	17th Nov. 1869	Improvements in spinning looms and in the spindles employed therein.
PELOUZE, EUGENE - - -	3086	18th Oct. 1869	Purification of coal gas. (Patented by Astley Paston Price.)
PELTIER, EMILE RENÉ - -	1452	12th May 1869	Improvements in the method and process of producing impressions upon tin andterne plates and sheets of metal, and in furnaces or ovens for heating and drying plates or sheets which have received the required impressions. (Patented by Philip William Flower and Wickham Flower.)
PENNELL, HENRY CHOLMON- [DELEY.	3486	2nd Dec. 1869	Rifles, fowling-pieces and small arms.
PENNING, WILLIAM HENRY -	81	11th Jan. 1869	A new system of signalling by compressed air.
PERCIVAL, HUGH - - -	3062	20th Oct. 1869	Glass furnaces.
PERCY, WILLIAM CARTER [STAFFORD.	3431	27th Nov. 1869	Machinery or apparatus for cutting animal and vegetable substances, and for making sausages.
PÉRIER, THEOPHILE - - -	2681	14th Sept. 1869	A new or improved appliance or apparatus for preventing accidents through the closing of doors and windows. (Patented by Charles Denton Abel.)
PERKIN, GEORGE - - -	1559	20th May 1869	An improved cup-and-ball-castor.
PERKIN, WILLIAM HENRY -	1948	26th June 1869	Manufacture of coloring matter suitable for dyeing and printing.
PERKIN, WILLIAM HENRY -	3318	17th Nov. 1869	Manufacture of coloring matter suitable for dyeing and printing.

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AND APPLICANTS FOR PATENTS OF INVENTION.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
PERKINS, CHARLES LAWRENCE	551	22nd Feb. 1869	Screw wrenches. (Patented by William Edward Newton.)
PERKINS, GEORGE CLAPP -	3040	18th Oct. 1869	Improvements in fabrics to be used as a sacking for bedsteads and couches, and in frames for supporting the same at tension. (Patented by Alfred Vincent Newton.)
PERKINS, JOHN MANSFIELD -	1215	20th April 1869	Lamps. (Patented by William Robert Lake.)
PERKINS, STANHOPE - -	3150	30th Oct. 1869	Manufacture of wrought iron or malleable metal of steely quality.
PERKINS, THOMAS - - -	1869	4th May 1869	Reaping and mowing machines.
PERKINS, THOMAS - - -	3217	8th Nov. 1869	Apparatus for ploughing or cultivating land.
PERKINS, WILLIAM - - -	3424	26th Nov. 1869	Improvements in fusees, matches or other analogous articles, and in the holders for the same.
PERRET, BROTHERS and [OLIVIER.]	3472	1st Dec. 1869	Manufacture of soda crystals. (Patented by William Spence.)
PERRY, EDWIN AUGUSTUS -	1646	28th May 1869	Brushes for cleaning the tubes of steam-boilers. (Patented by William Robert Lake.)
PERRY, FRANCIS - - -	9	1st Jan. 1869	An improved process for preserving animal and vegetable substances from decay, and also for preserving fermented liquors. (Communicated by George William Perry.)
PERRY, GEORGE WILLIAM -	9	1st Jan. 1869	An improved process for preserving animal and vegetable substances from decay, and also for preserving fermented liquors. (Patented by Francis Perry.)
PERRY, JOSEPH JOHN - -	3022	16th Oct. 1869	Machinery or apparatus for heating and delivering metal bars. (Communicated by Samuel A. Darrach.)
PERRY, JOSEPH JOHN - -	3443	27th Nov. 1869	Boxes for holding various articles.
PERRY, LEWIS HENRY - -	3443	27th Nov. 1869	Boxes for holding various articles.
PERRY, STEPHEN - - -	3443	27th Nov. 1869	Boxes for holding various articles.
PETERSEN, CARL WOLFGANG -	263	27th Jan. 1869	Improvements in life boats, which improvements are also applicable to steam tugs, pilot-boats and tenders.
PETERSEN, CARL WOLFGANG -	1723	3rd June 1869	Improvements in life boats and the mode of propelling and ventilating the same, the said improvements being also applicable to steam tugs, pilot boats, tenders and other floating bodies.
PETERSEN, CARL WOLFGANG -	3508	4th Dec. 1869	Improvements in the construction of life boats and other floating bodies, and in the mode of propelling and ventilating the same, and in steam-boilers to be used therewith.
PETERSEN, CARL WOLFGANG -	3767	30th Dec. 1869	Improvements in steam and other life boats and vessels, and in boilers for steam life boats and vessels.
PETERSEN, THEODOR - - -	2623	6th Sept. 1869	Certain improvements in the treatment of human excrements whereby they are converted into an inodorous, dry and easily portable manure.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
PETIT, LAURENT - - -	2073	10th July 1869	An improved mode of measuring or dividing time, applicable to chronometers, sextants and other such like instruments. (Patented by Alexander Melville Clark.)
PETRE, NICOLAS - - -	1245	22nd April 1869	Locks. (Patented by William Robert Lake.)
PETRIE, GEORGE - - -	3329	18th Nov. 1869	Improvements in the preparation of ashes for the manufacture of manure and in the separation of cinders therefrom, which improvements are also applicable to the preparation of materials used in the manufacture of bricks and tiles.
PETRIE, JOHN, junior - -	80	11th Jan. 1869	Machinery or apparatus for washing wool and other fibrous materials.
PETTIBONE, PAYNE - - -	321	2nd Feb. 1869	Improvements in the construction of the permanent way of railroads and in the means of securing or fastening the various parts. (Patented by William Edward Newton.)
PETTITT, EDWIN - - -	2100	12th July 1869	Machinery for preparing and spinning cotton and other fibrous substances.
PEYTON, EDWARD - - -	903	24th March 1869	Manufacture of rollers, cylinders or tubes for printing upon textile fabrics or other materials or for other purposes.
PFaff, ERNEST CONSTANTINE	1295	27th April 1869	Certain improvements in carding-engines. (Patented by Benjamin Dobson.)
PFEIFFER, IMANUEL - - -	1402	7th May 1869	Apparatus for washing out casks. (Patented by Richard Fennelly.)
PHELPS, CHARLES WILLIAM -	392	9th Feb. 1869	Infants' and invalids' feeding bottles.
PHELPS, GEORGE - - -	392	9th Feb. 1869	Infants' and invalids' feeding bottles.
PHELPS, REUBEN - - -	392	9th Feb. 1869	Infants' and invalids' feeding bottles.
PHILIPPS, JOSEPH - - -	1911	22nd June 1869	An improved combustible compound. (Patented by William Robert Lake.)
PHILIPS, ROBERT - - -	3100	26th Oct. 1869	An improved machine or apparatus for bronzing, coloring and illuminating cards and paper of all descriptions, the same being applicable to bronzing or coloring wall papers.
PHILLIPS, JAMES EDWIN -	1386	5th May 1869	Improvements in sewing-machines and in tables for the same, parts of which improvements are applicable to other machinery.
PHILLIPS, JAMES EDWIN -	1851	16th June 1869	Improvements in reaping and mowing machines, and in apparatus for sharpening the knives of such machines.
PHILLIPS, JAMES EDWIN -	1852	16th June 1869	Hay making and raking machines.
PHILLIPS, JAMES EDWIN -	3471	30th Nov. 1869	Improvements in reaping and mowing machines, and in apparatus for sharpening the knives of such machines.
PHILLIPS, JOHN OLIVER [CHAPMAN.]	542	22nd Feb. 1869	An improvement or improvements in the construction of sets or partial sets of artificial teeth.
PHILLIPS, LAWRENCE BARNETT	149	16th Jan. 1869	Means for obtaining in metals or alloys fac similes of works of art and designs in relief and intaglio, composed of metals, wood, gems, wax and other substances, and also of type, cog wheels, bearings and other parts of machinery.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
PHILLIPS, SAMUEL - - -	2246	24th July 1869	Manufacture of hats and hat bodies or other coverings for the head.
PHILLIPS, WILLIAM HENRY -	858	22nd March 1869	Apparatus for containing and discharging water or other fluid for extinguishing fires and for other purposes.
PICARD, BARTHÉLEMY - -	1221	21st April 1869	Improvements in towing with sunk chains, applicable to the navigation on all rivers and streams of water of whatever depth, and in apparatus in connection therewith.
PICHELIN, PAUL - - -	473	16th Feb. 1869	Treating the waste of wool, silk, horn and other nitrogenized animal matters to be used as manure. (Patented by Clinton Edgcumbe Brooman.)
PICHELIN, PAUL - - -	2420	13th Aug. 1869	Treating the waste of wool, silk, horn and other nitrogenized animal matters to be used as manure. (Patented by Clinton Edgcumbe Brooman.)
PICKEN, GEORGE - - -	1888	19th June 1869	Improvements in the sticks of umbrellas and in walking sticks and whips.
PICKERING, JOHN - - -	242	26th Jan. 1869	Modes and means of finishing the surfaces of timber.
PICKERING, JOHN - - -	278	29th Jan. 1869	Propulsion of ships, vessels and boats.
PICKERSGILL, GEORGE - -	3602	13th Dec. 1869	Machinery to be employed for cutting and boring metals.
PICTET, RAOUL - - -	2249	24th July 1869	Building of pumps in general which permit their working without pistons and oil.
PIDDING, WILLIAM - - -	44	6th Jan. 1869	Method or methods of treating plants, shrubs and vegetable productions for the purpose of extracting, collecting and preserving the aroma and volatile matter or essential oil yielded by them.
PIDDING, WILLIAM - - -	152	18th Jan. 1869	Improvements in the mode or modes of the production or manufacture of cut piled mosaic, mosaic textile and tessellated fabrics, in the treatment of materials used and in machinery and apparatus used for the said purpose.
PIDDING, WILLIAM - - -	1894	21st June 1869	Mechanism applicable to locomotion.
PIDDING, WILLIAM - - -	2039	6th July 1869	Improvements in the mode or modes of obtaining scents, aroma, perfume or essential oils from flowers and from all vegetable substances producing the same, also in the machinery or apparatus in connection therewith.
PIDDING, WILLIAM - - -	2156	17th July 1869	Improvements in the mode or modes of the production or manufacture of cut piled mosaic, mosaic textile and tessellated fabrics, in the treatment of materials used and in machinery and apparatus used for the said purpose.
PIERCE, PHILIP - - -	3749	27th Dec. 1869	Horse or other gearing.
PIERSON, LÉON - - -	3633	15th Dec. 1869	Means or apparatus for reducing friction. (Patented by John Henry Johnson.)
PIGOTT, GEORGE WEST ROY- [STON.]	471	16th Feb. 1869	Machinery or apparatus for the consecutive manufacture of various articles of commerce from materials capable of being formed either by tension, compression or extension thereof.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
PIKE, FREDERICK R. - -	161	18th Jan. 1869	Propelling machinery for canal boats and other vessels. (Patented by William Robert Lake.)
PIKE, FREDERICK R. - -	2147	16th July 1869	Propelling machinery for canal boats and other vessels. (Patented by William Robert Lake.)
PILE, LOUIS FLORIAN - -	141	16th Jan. 1869	Improvements in the manufacture of casks, tubs and other like receptacles, and in the machinery or apparatus employed therein. (Patented by John Henry Johnson.)
PILKINGTON, EDWARD - -	3609	14th Dec. 1869	Certain improvements in looms for weaving.
PILTER, THOMAS - - -	3476	1st Dec. 1869	Apparatus for shearing or clipping animals, the said apparatus being also applicable to shaving skins. (Patented by Arthur Charles Henderson.)
PILTZ, ROBERT FRANCIS -	700	8th March 1869	Manufacture of paper-hangings.
PIM, JOHN - - - -	1311	28th April 1869	Apparatus for ventilating apartments, passages and other places.
PIMBLEY, JOSEPH - - -	2326	3rd Aug. 1869	Machines for polishing threads.
PIMBLEY, THOMAS - - -	292	30th Jan. 1869	An alarm communication between railway passengers, guard and engine-driver.
PINCHBECK, JAMES - - -	2319	3rd Aug. 1869	Gas meters.
PINCHON, JEAN BAPTISTE [BARREAU.	2300	31st July 1869	An improved apparatus for condensing steam.
PINDRAY, ALFRED DE - -	627	18th March 1869	Steam-boiler and other furnaces.
PINEL, LOUIS HENRY - -	2619	6th Sept. 1869	Construction of casters or rollers for furniture and applicable where casters or rollers are or may be employed. (Patented by Casimir Durozet Escoffier.)
PINKHAM, GEORGE F. - -	2664	11th Sept. 1869	Apparatus for extinguishing fires. (Patented by William Robert Lake.)
PINKUS, HENRY - - - -	2440	16th Aug. 1869	Improvements in furnaces and other heating apparatus, and in the methods of applying and using therewith certain elements of combustion, and in the combinations therewith of the processes with materials to be used in the manufactures of metals and other things and uses, and in the mechanical constructions necessary therewith.
PIRET, JULES - - - -	2106	13th July 1869	Slide valves of steam-engines and elastic power engines generally.
PITCAIRN, ROBERT - - -	2591	2nd Sept. 1869	A new or improved rest for supporting the arms, feet or body of a person or books and other small objects.
PITON, JOHN GEORGE - -	701	8th March 1869	Improved means and apparatus for signalling from one part of a railway train to another, the same being adaptable to warming purposes, and to signalling in ships or vessels, buildings and other places.
PITT, EDWARD - - - -	691	8th March 1869	Machinery or apparatus for drilling, turning or cutting and shaping metals or other materials.
PITT, EDWARD - - - -	3434	27th Nov. 1869	Machinery or apparatus for drilling, turning or cutting and shaping metals or other materials.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
PITT, JAMES - - - -	691	8th March 1869	Machinery or apparatus for drilling, turning or cutting and shaping metals or other materials.
PITT, JAMES - - - -	3434	27th Nov. 1869	Machinery or apparatus for drilling, turning or cutting and shaping metals or other materials.
PITT, JOSEPH - - - -	691	8th March 1869	Machinery or apparatus for drilling, turning or cutting and shaping metals or other materials.
PITT, JOSEPH - - - -	3434	27th Nov. 1869	Machinery or apparatus for drilling, turning or cutting and shaping metals or other materials.
PITT, WILLIAM - - - -	691	8th March 1869	Machinery or apparatus for drilling, turning or cutting and shaping metals or other materials.
PITT, WILLIAM - - - -	3434	27th Nov. 1869	Machinery or apparatus for drilling, turning or cutting and shaping metals or other materials.
PLATT, JOHN - - - -	1574	21st May 1869	Manufacture of brooms and brushes.
PLATT, WILLIAM HENRY -	153	18th Jan. 1869	Looms for weaving.
PLAYER, JACOB HORT - -	2101	12th July 1869	Utilizing the residual sulphate of lime produced in the manufacture of phosphorus.
PLAYER, JOHN - - - -	3025	16th Oct. 1869	Manufacture of iron and steel.
PLETTS, MATTHEW - - -	1226	21st April 1869	Oil feeders.
PLUM, ROBERT BAGSHAW -	1733	4th June 1869	Improvements in sewing-machines, part of which improvements is also applicable to other machinery in which rotary motion is to be converted into reciprocating motion.
PLUMB, CHARLES - - - -	1637	28th May 1869	An improved ratchet-brace combining boring, tapping, screwing and cutting-off apparatus.
PLUMBE, CHARLES - - - -	2557	28th Aug. 1869	Improvements in communicating between passengers and the guard and driver of railway trains, and in the machinery or apparatus employed therein.
PLUMBE, WILLIAM ALVEY -	2557	28th Aug. 1869	Improvements in communicating between passengers and the guard and driver of railway trains, and in the machinery or apparatus employed therein.
POCHET, LEON - - - -	3435	27th Nov. 1869	An improved apparatus for cutting or dressing stone, applicable also to other purposes where rapid blows are required.
POCOCK, ALFRED WILLMER -	3463	30th Nov. 1869	Meters or apparatus for measuring water and other liquids.
POHL, OTTO ERNEST - - -	1173	16th April 1869	A new mode of constructing vessels of war with due regard to their protection from shot and shell.
POIRRIER, ALCIDE - - - -	2818	28th Sept. 1869	The production of a new or improved green colouring matter for dyeing and printing. (Patented by Charles Denton Abel.)
POLACCO, FRANCIS - - - -	2463	18th Aug. 1869	Improvements in charcoal filters for purifying water or other liquids, likewise in the mode of applying the same.
POLGLASE, JAMES - - - -	3758	29th Dec. 1869	Machinery for crushing ores.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
POLLACK, HEINRICH - -	1270	24th April 1869	Improvements in sewing-machines with rotary spoolhook for protecting spoolhook and bobbin from damage, and for preventing breakage of thread and needle. (Patented by Peter Jensen.)
POLLIT, JOSEPH - - -	2898	6th Oct. 1869	Improvements in metallic pistons for steam-engines and in the manufacture thereof.
POLLITT, WILLIAM - - -	3418	25th Nov. 1869	Machinery for washing, wringing, mangling, churning and mixing fluids.
POLLOCK, JAMES - - -	1291	26th April 1869	An improved method of and means for preventing the corrosion of steam-boilers.
POLLOCK, JULIUS FREDERICK [MOORE.	2911	6th Oct. 1869	Machinery for making bricks and other similar articles.
POLSEY, ARLOH MAN - -	941	29th March 1869	Improvements in the manufacture of horse-shoe nails and in machinery employed in such manufacture. (Patented by William Robert Lake.)
POLSON, JOHN - - -	2730	20th Sept. 1869	Treating grain.
PONSARD, AUGUSTE - - -	3541	7th Dec. 1869	Crucibles, melting pots, retorts, furnaces and other articles subjected to an elevated temperature. (Patented by John Henry Johnson.)
PONTIFEX, EDMUND ALFRED -	2906	6th Oct. 1869	Refrigerators for cooling worts and other liquids.
POOLE, ROBERT - - -	875	22nd March 1869	Machinery for rubbing and mixing paints, chemicals, fertilizers and other substances. (Patented by Alexander Clark.)
POPE, WILLIAM - - -	92	12th Jan. 1869	Knitting machinery. (Patented by Alfred Vincent Newton.)
PORTEOUS, JAMES - - -	254	27th Jan. 1869	Improvements in the manufacture of tobacco and in the machinery or apparatus employed therefor.
PORTEOUS, JAMES - - -	783	12th March 1869	Improvements in the manufacture of tobacco and in the machinery or apparatus employed therefor.
PORTEOUS, JAMES - - -	2612	4th Sept. 1869	Improvements in the manufacture of tobacco and in the machinery or apparatus employed therefor.
PORTER, ALONZO - - -	3005	15th Oct. 1869	Sewing-machines. (Patented by William Robert Lake.)
PORTER, ROBERT - - -	1981	1st July 1869	Furnaces.
POSEN, HEINRICH - - -	486	16th Feb. 1869	An improved fastening for purses, pocket books, belts and other articles. (Communicated by Ernst Philipp Hinkel.)
POSENER, ADOLPH - - -	1403	7th May 1869	Pipes for smoking tobacco.
POSENER, DAVID - - -	1403	7th May 1869	Pipes for smoking tobacco.
POSTLETHWAITE, GEORGE [RICHARD.	159	18th Jan. 1869	Machinery for the manufacture of screw nuts, bolts, spikes, rivets, screw blanks and other like articles.
POTTER, FREDERICK WILLIAM	2572	31st Aug. 1869	A new or improved construction of wire-work applicable for sieves, screens and various other articles in which wire-work is used.
POTTS, WILLIAM - - -	3666	18th Dec. 1869	An improved apparatus for effecting or promoting the ventilation of rooms or buildings, and for preventing draught in chimneys.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
POUCEL, CHARLES - - -	3285	13th Nov. 1869	Preventing and removing incrustations in steam-boilers.
POWELL, JOHN WILLIAM -	2900	6th Oct. 1869	An improved valve-cock.
POWELL, WILLIAM - - -	1055	7th April 1869	Breech-loading fire-arms.
PRALL, WILLIAM EDGAR -	2508	23rd Aug. 1869	Apparatus for raising and forcing water and for obtaining motive-power. (Patented by William Robert Lake.)
PRATO, JOSEPH - - -	2463	18th Aug. 1869	Improvements in charcoal filters for purifying water or other liquids, likewise in the mode of applying the same.
PRATT, — - - -	2024	5th July 1869	Water meters. (Patented by William Robert Lake.)
PRATT, DANIEL RICE - -	795	15th March 1869	An improved multiple drilling machine. (Patented by William Robert Lake.)
PRATT, DANIEL RICE - -	1050	7th April 1869	Permanent way of railways. (Patented by William Robert Lake.)
PRATT, DANIEL RICE - -	2903	6th Oct. 1869	Permanent way of railways. (Patented by William Robert Lake.)
PRATT, DANIEL RICE - -	3041	18th Oct. 1869	An improved nut for screw bolts. (Patented by William Robert Lake.)
PRATT, HENRY S. - - -	3118	27th Oct. 1869	Manufacture of sheet-iron. (Patented by William Robert Lake.)
PRATT, WILLIAM THOMAS [CASSEL.	1074	8th April 1869	Improved apparatus for signalling on railways.
PRENTICE, EDWARD HENRY -	258	27th Jan. 1869	Manufacture of phosphatic manures.
PRESTAGE, FRANKLIN - -	1708	2nd June 1869	Construction of railway goods waggons. (Patented by Charles Francis.)
PRESTAGE, FRANKLIN - -	1709	2nd June 1869	Construction of moorings. (Patented by Charles Francis.)
PRESTAGE, FRANKLIN - -	2594	2nd Sept. 1869	An improved arrangement of apparatus to be adapted to railroad carriages, for the purpose of assisting in retarding their progress when desired, and also for assisting in starting a train after a stoppage.
PRESTIGE, JOHN - - -	1675	31st May 1869	Lamps for signalling.
PRESTIGE, JOHN - - -	3548	8th Dec. 1869	Apparatus for regulating the supply of water to water-closets and other similar places.
PRESTON, FRANCIS - - -	3430	27th Nov. 1869	Machinery or apparatus for preparing, spinning, twisting and doubling wool, cotton and other fibrous substances.
PRESTON, GEORGE - - -	1675	31st May 1869	Lamps for signalling.
PRESTON, GEORGE - - -	3548	8th Dec. 1869	Apparatus for regulating the supply of water to water-closets and other similar places.
PRESTWICH, JOHN - - -	1285	26th April 1869	Arrangement and construction of steam-boiler and other furnaces for economizing fuel and labour, and consuming smoke.
PRESTWICH, JOHN - - -	1643	28th May 1869	Velocipedes.
PRESTWICH, SAMUEL - -	1285	26th April 1869	Arrangement and construction of steam-boiler and other furnaces for economizing fuel and labour, and consuming smoke.
PRESTWICH, SAMUEL - -	1643	28th May 1869	Velocipedes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
PRICE, ASTLEY PASTON - -	89	12th Jan. 1869	Production of colors from naphthaline. (Communicated by Doctor L. Darmstädter and Doctor H. Wickelhaus.)
PRICE, ASTLEY PASTON - -	2046	7th July 1869	Producing partial or complete anæsthesia. (Communicated by Doctor Mathias Eugen Oscar Liebreich, M.D.)
PRICE, ASTLEY PASTON - -	3036	18th Oct. 1869	Purification of coal gas. (Communicated by Eugene Pelouze.)
PRICE, DAVID SIMPSON - -	764	12th March 1869	An improved paving for roads and tramways.
PRICE, GEORGE - - -	283	29th Jan. 1869	Window fastenings.
PRICE, JAMES WILLIAM - -	160	18th Jan. 1869	Improvements in the manufacture of horse-shoe nails and other nails, and in machinery to be employed therein.
PRIDEAUX, THOMAS - -	3522	6th Dec. 1869	Purifying and calcining gas and soap limes, and other chemical refuse of lime which has been used in the manufacture of such articles.
PRIESTLEY, ROBERT - -	2562	23th Aug. 1869	Fastenings for gloves.
PRINCE, JOHN TUCKER - -	3527	6th Dec. 1869	Machinery for hulling grain or seed. (Patented by William Robert Lake.)
PRITCHARD, EDWARD - -	765	12th March 1869	An improved safety button or stud adapted for articles of dress, and other articles the parts whereof require to be frequently connected together and detached.
PRITCHARD, JAMES - -	3703	22nd Dec. 1869	Improvements in embroidering or sewing and in the machinery or apparatus employed therefor.
PROBERT, WILLIAM - -	850	20th March 1869	Tuyeres for blast furnaces, forges and for other furnaces.
PROCTOR, WILLIAM FASH -	957	30th March 1869	An improved construction of sewing-machine table. (Communicated by The Singer Manufacturing Company (Incorporated).)
PROSSER, TREAT TIMOTHY -	709	9th March 1869	Improvements in mechanism for operating tilt hammers and in the mode of applying power to the same. (Patented by William Robert Lake.)
PROSSER, TREAT TIMOTHY -	1321	28th April 1869	Improvements in apparatus for generating and condensing steam, and in furnaces for steam generators and for other purposes. (Patented by William Robert Lake.)
PROSSER, TREAT TIMOTHY -	1512	17th May 1869	Machinery for forming the threads of metal screws. (Patented by William Robert Lake.)
PROSSER, WILLIAM - -	26	5th Jan. 1869	Purification and bleaching of oils, gums and resins and spirits.
PROUD, JOSEPH - - -	313	2nd Feb. 1869	Improvements in the class of vehicles known as "Basket cars."
PROWETT, WILLIAM - -	1292	26th April 1869	Knitting machines.
PULBROOK, EDWIN HORSELL -	1571	21st May 1869	Organs.
PULLEN, GEORGE EDWARD -	993	1st April 1869	Apparatus for securing or fastening window sashes and an improved bolt applicable to sash fasteners of all kinds.

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AND APPLICANTS FOR PATENTS OF INVENTION.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
PULVERMACHEE, ISAC LOUIS -	2062	8th July 1869	Improvements in the construction of chains, batteries and apparatus for producing electric currents, also in means of applying the same for medical and other purposes.
PURSALL, WILLIAM - - -	3533	7th Dec. 1869	Cartridges for breech-loading fire-arms.
PÜTSCH, ALBERT - - -	1825	15th June 1869	Improvements in the manufacture of glass and in apparatus for the same. (Patented by Peter Jensen.)
PÜTSCH, HERMANN - - -	1825	15th June 1869	Improvements in the manufacture of glass and in apparatus for the same. (Patented by Peter Jensen.)
PYE-SMITH, ARTHUR - - -	3174	2nd Nov. 1869	Manufacture of artificial stone and for forcing liquids into porous substances. (Patented by Robert Spice.)
PYNE, RICHARD - - -	498	18th Feb. 1869	Construction of steps for the doors of railway and other carriages.
PYNE, RICHARD - - -	609	27th Feb. 1869	An improved railway buffer carriage.
PYNE, RICHARD WILLIAM -	3701	21st Dec. 1869	Velocipedes.
Q.			
QUESNE, LE - - - -	1785	9th June 1869	Improvements in the manufacture of artificial fuel and in apparatus for the purpose. (Patented by William Lloyd Wise.)
QUETINEAU, LÉANDRE - -	2002	2nd July 1869	An improved combined travelling bag and chair. (Patented by William Robert Lake.)
QUIN, JAMES - - - -	3455	29th Nov. 1869	Improved means for preventing roller laps on roller ends of machines for carding cotton, woollen, flax or any other fibrous material.
QUINTON, JAMES - - - -	2373	9th Aug. 1869	An improved tobacco pouch.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
R.			
RABBACK, WILHELM - -	2789	25th Sept. 1869	A new and improved Greek-fire arm. (Patented by Henri Adrien Bonneville.)
RABOUIN, NARCISSE - -	1213	20th April 1869	An improved toy. (Patented by William Robert Lake.)
RADDIN, JOHN - - -	175	19th Jan. 1869	Wheels for railway carriages, locomotives and other vehicles. (Patented by William Robert Lake.)
RADISSON, ANTOINE St. Cyr	1782	9th June 1869	Treatment of oleine and other fatty matters for the purpose of transforming them into solid materials suitable for the manufacture of candles.
RAE, JAMES - - - -	3714	23rd Dec. 1869	Method of and the means for supplying inland towns with pure salt sea-water for bathing and other purposes.
RAFRAICHESSEUR, COMPANY [OR SOCIETY DU.	601	26th Feb. 1869	Improved apparatus for distributing liquids in a state of spray. (Patented by Ernest Falck.)
RAKOWSKI, CASIMIR - -	3606	13th Dec. 1869	Candle lamps or imitation candles. (Patented by Richard Wellesly Bernard.)
RAMSAY, THOMAS - - -	2309	31st July 1869	Apparatus for the manufacture of gas.
RAMSBOTTOM, JOHN - -	820	18th March 1869	An improved mode of ventilating railway tunnels.
RAMSBOTTOM, JOHN - -	1405	7th May 1869	Steam and hydraulic apparatus for pumping, forcing and measuring water, and for raising weights.
RAMSDEN, JOHN CARTER -	823	18th March 1869	Looms for weaving.
RAMSDEN, JOHN CARTER -	2914	7th Oct. 1869	Looms for weaving.
RAMSDEN, JOHN CARTER -	3668	18th Dec. 1869	Looms for weaving.
RAMSEY, GEORGE CHARLES -	2338	4th Aug. 1869	Construction of fancy circular boxes.
RAMSHILL, WILLIAM TATLOW	2337	4th Aug. 1869	Construction of heels for boots and shoes.
RANSOME, ALLEN - - -	487	17th Feb. 1869	Wood-cutting machinery.
RANSOME, FREDERICK - -	2448	16th Aug. 1869	Manufacture of artificial stone.
RANSOME, ROBERT JAMES -	3575	10th Dec. 1869	Tramways.
RAPER, JAMES - - - -	3024	16th Oct. 1869	Looms for weaving.
RAPIER, RICHARD CHRIS- [TOPHER.	1208	20th April 1869	Improvements in railway signals and in apparatus for working the same.
RAPIER, RICHARD CHRIS- [TOPHER.	2415	12th Aug. 1869	Lifting jacks for lifting railway rails.
RAPIER, RICHARD CHRIS- [TOPHER.	2550	27th Aug. 1869	Railway water cranes.
RAPIER, RICHARD CHRIS- [TOPHER.	3575	10th Dec. 1869	Tramways.
RASTALL, GEORGE - - -	2372	9th Aug. 1869	Velocipedes.
RAVE, FRANCOIS - - -	1717	3rd June 1869	An improved method of extracting color from vegetable matter.
RAWBONE, WILLIAM GEORGE	14	2nd Jan. 1869	Apparatus to be used in converting breech-loading fire-arms into muzzle-loading fire-arms.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
RAWLINGS, EDWARDS HENRY	199	21st Jan. 1869	An improved apparatus for shearing animals and skins. (Patented by William Robert Lake.)
RAWLINGS, EDWARDS HENRY	2279	27th July 1869	An improved apparatus for shearing or clipping animals and skins. (Patented by William Robert Lake.)
RAWLINGS, HENRY DOO - -	790	15th March 1869	Apparatus employed in filling bottles or other receivers with aerated liquids.
RAWSON, GEORGE WASHINGTON. [TON.	3755	28th Dec. 1869	Improved apparatus for promoting the combustion in a furnace of the smoke and gases resulting from the fuel thereof.
RAWSTHORNE, SHADRACH -	2630	7th Sept. 1869	Mules for spinning.
RAWSTHORNE, THOMAS - -	3592	13th Dec. 1869	Putting twist into sliver or yarn from the flyer eye to the front rollers of frames for cotton, woollen or other fibrous substances.
RAY, GEORGE ROBERT - -	3051	20th Oct. 1869	Machinery for cutting, shaping and dressing stone.
RAY, ROBERT HENRY - -	1387	5th May 1869	Construction and arrangements of reaping and mowing machines.
READ, SAMUEL - - -	2082	10th July 1869	Improvements in finishing fibrous and textile fabrics, and in the machinery or apparatus employed therefor.
READE, WILLIAM HICKMAN -	2611	4th Sept. 1869	Machinery for clipping and cleansing the hair of animals.
REAP, JOHN - - - -	602	26th Feb. 1869	Spring hinges.
REAVELY, GEORGE - - -	1233	21st April 1869	Locking apparatus used for railway sidings to prevent trucks or other carriages passing out from the sidings.
REDGRAVE, JOHN - - -	19	4th Jan. 1869	Manufacture and ornamentation of chandeliers, lamps, lustres and other articles.
REDGRAVE, JOHN - - -	2004	2nd July 1869	Improvements in the manufacture of ornamental articles in glass, alone or in combination with other materials, and in the application thereof to various purposes.
REDMOND, OWEN - - -	3724	23rd Dec. 1869	Traction engines. (Patented by Henry Edward Newton.)
REED, HENRY - - - -	1262	24th April 1869	A new or improved pneumatic apparatus for expanding or distending French-letters.
REEDER, THOMAS - - -	249	27th Jan. 1869	Improvements in the manufacture of sheet-metal rollers and in the machinery employed therein.
REES, GEORGE - - - -	393	9th Feb. 1869	Improved means of producing designs and devices upon the surface of glass and glazed ware.
REES, GEORGE - - - -	576	24th Feb. 1869	Improved means of producing designs and devices upon the surface of glass and glazed ware.
REEVES, JOHN - - - -	2841	30th Sept. 1869	Bearings of the wheels of velocipedes.
REEVES, SAMUEL J. - -	1447	11th May 1869	Connecting and sustaining the rails of railways. (Patented by Albert Vickers.)
REFFITT, JOSEPH - - -	3444	27th Nov. 1869	Machinery or apparatus for boring, turning and polishing trenails, bobbins or other similar articles of wood or other materials.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
REGNAULD, PIERRE STANISLAS	618	1st March 1869	An improved mode of and apparatus for fixing the lid and the bottom of tin canisters, preserve or other boxes to the body of them.
REHSE, JOHN - - -	2190	20th July 1869	An improved system for the cure of stammering.
REID, HENRY - - -	2940	9th Oct. 1869	Treatment and preparation of clays for the manufacture of Portland and other cements.
REID, JOHN - - -	1561	20th May 1869	Improvements in communicating between passengers and persons in charge of railway trains, and in apparatus employed therefor.
REID, JOHN - - -	2253	24th July 1869	Manufacture of textile fabrics.
REID, JOHN - - -	2868	2nd Oct. 1869	Waterproof coats and leggings.
REID, JOHN WYATT - -	543	22nd Feb. 1869	An improved mode of and apparatus for producing paper pulp or half stuff from wood and other fibrous materials.
REID, JOHN WYATT - -	2123	14th July 1869	Beating engines employed in the manufacture of paper.
REILLY, EDWARD MICHAEL -	1259	23rd April 1869	Improvements in explosive bullets and in the apparatus for making them.
REINACH, JACOB - - -	296	30th Jan. 1869	A new file-planing machine. (Patented by Edward Thomas Hughes.)
REINACH, JACOB - - -	297	30th Jan. 1869	A new file-cutting machine. (Patented by Edward Thomas Hughes.)
REINGEHL, WILLIAM HENRY -	596	25th Feb. 1869	Furnaces and apparatus for oxidizing and desulphurizing iron and other ores. (Patented by William Edward Newton.)
REISSIG, THEODORE - -	3451	29th Nov. 1869	Improvements in making a new derivative of phenol, and in producing certain colours therewith upon textile fabrics and yarns.
REMINGTON, SAMUEL - -	36	5th Jan. 1869	Breech-loading fire-arms.
RENDALL, JOHN MURLY - -	1414	8th May 1869	A new or improved description of biscuit manufactured from the cacao bean.
RENDEL, GEORGE WIGHTWICK	2796	25th Sept. 1869	Gun carriages and slides.
RENDEL, GEORGE WIGHTWICK	2797	25th Sept. 1869	Breech-loading guns.
RENDER, FREDERICK - -	800	16th March 1869	Improvements applicable to the transport of minerals and other merchandise upon railways.
RENDER, FREDERICK - -	958	30th March 1869	Railways.
RENNOLDSON, JAMES PURDY -	3103	26th Oct. 1869	Steam lubricators.
RENTON, AMHERST HAWKER -	1144	14th April 1869	Improvements in the mode of jointing pipes and tubes, and in the packing employed therefor.
REQUA, JAMES MILTON - -	3130	28th Oct. 1869	Axles for rail and tramway carriages and vehicles. (Patented by Nathan Randolph Vail.)
RESTELL, THOMAS - - -	2107	13th July 1869	Breech-loading fire-arms and cartridges.
RESTELL, THOMAS - - -	2692	15th Sept. 1869	Improvements in breech-loading fire-arms and in cartridges for breech-loading fire-arms.
REUEVEY, AMBROISE - -	3121	28th Oct. 1869	Certain improvements in knitting machines. (Patented by Henry Bernoulli Barlow.)
REUSS, ERNEST GEORGE -	866	22nd March 1869	Manufacture of table cutlery.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
REXROTH, JACQUES - - -	1921	23rd June 1869	An improved anti-explosive or safety lamp applicable for mining and general purposes. (Patented by Alexander Melville Clark.)
REYNOLDS, WILLIAM FRANCIS	1216	21st April 1869	Velocipedes and other vehicles or carriages mounted on running wheels.
RHODES, GEORGE - - -	3657	17th Dec. 1869	Apparatus for actuating the valves of steam-engines.
RIBEYRE, EDOUARD - - -	1114	10th April 1869	Fountain pens. (Patented by Alexander Melville Clark.)
RICE, THOMAS - - -	2924	8th Oct. 1869	Fixing door knobs or handles on to the spindles of door locks.
RICHARDS, JOHN - - -	1828	15th June 1869	Machines for planing wood. (Patented by Martin Benson.)
RICHARDS, JOHN - - -	1829	15th June 1869	Mortising machines for making mortises in all kinds of wood and joinery. (Patented by Martin Benson.)
RICHARDS, JOHN - - -	1830	15th June 1869	Band-sawing machinery for sawing wood, iron or other material. (Patented by Martin Benson.)
RICHARDS, THOMAS - - -	2120	14th July 1869	Stoves or fire-places.
RICHARDS, WESTLEY - - -	2427	13th Aug. 1869	Improvements in breech-loading fire-arms and in cartridges to be used therewith.
RICHARDS, WESTLEY - - -	3481	1st Dec. 1869	Fire-arms and cartridges.
RICHARDS, WESTLEY - - -	3641	16th Dec. 1869	Breech-loading fire-arms and cartridges.
RICHARDS, WESTLEY - - -	3763	29th Dec. 1869	Breech-loading fire-arms and cartridges.
RICHARDS, WILLIAM HENRY -	2629	7th Sept. 1869	Chair and trunk nails, which nails are employed also for other useful and ornamental purposes.
RICHARDSON, ALFRED THOMAS	3757	29th Dec. 1869	Manufacture of crape.
RICHARDSON, EVERETT PRES- [TON.	1131	13th April 1869	Improvements in the manufacture of boots and shoes, and in machinery employed therein. (Patented by Benjamin Joseph Barnard Mills.)
RICHARDSON, JAMES HENRY -	3686	20th Dec. 1869	Boxes or cases for packing and carrying eggs. (Communicated by John Brigham White.)
RICHARDSON, JOHN - - -	3483	1st Dec. 1869	Steam-engine governors and apparatus connected therewith.
RICHARDSON, JOHN THOMAS [HADEN.	599	26th Feb. 1869	An improved method of cutting flint glass such as is used for "wines," "goblets," "tumblers" or other table glass, or for lamp or other glasses of a circular or oval shape, and in apparatus to be employed therefor.
RICHARDSON, ROBERT - - -	1601	25th May 1869	Velocipedes.
RICHARDSON, THOMAS - - -	3404	25th Nov. 1869	Construction of compound forms and desks or tables for schools and other similar purposes.
RICHARDSON, WILLIAM - - -	2895	5th Oct. 1869	Machinery for burring or cleaning wool, cotton and other fibrous materials.
RICHARDSON, WILLIAM - - -	3282	13th Nov. 1869	Improvements applicable to valves of steam-engine cylinders.
RICHARDSON, WILLIAM HADEN	3777	31st Dec. 1869	A new method of indicating or stamping with the standard mark or otherwise, crystal or glass measures for containing spirits, beer and other liquids.

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ALPHABETICAL INDEX OF PATENTEES

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
RICHMAN, HENRY JOHN -	389	8th Feb. 1869	Fans or apparatus for forcing or drawing air. (Communicated by Walter Watson Hughes.)
RICHMOND, EDWARD HOWARD	1381	5th May 1869	Improved apparatus and process for preserving fresh meat and other animal food, fish, poultry and game, also ingredients, matters or substances to be used in combination with the said apparatus.
RICHMOND, THOMAS - -	220	23rd Jan. 1869	Improved appliances to be used in the manufacture of boots and shoes.
RICHMOND, THOMAS - -	480	17th Feb. 1869	Certain improvements in looms for weaving.
RICHMOND, THOMAS - -	2428	14th Aug. 1869	Certain improvements in looms for weaving.
RICHMOND, THOMAS - -	3580	11th Dec. 1869	Looms and healds for weaving.
RICKARD, WILLIAM THOMPSON	1044	7th April 1869	Preparation of cements.
RICKETT, THOMAS - - -	810	17th March 1869	Velocipedes and other wheel vehicles.
RIDDELL, JOSEPH HADLEY -	1810	12th June 1869	Joints or connections for uniting and securing together the ends of pipes or tubes.
RIDDELL, WILLIAM - -	938	27th March 1869	Sewing-machines.
RIDER, ALEXANDER KIRK -	1171	15th April 1869	Improvements in valves and valve gear for steam-engines, and in the means for operating and adjusting the same.
RIDGAWAY, SAMUEL CLARK -	1273	24th April 1869	Reaping and mowing machines. (Patented by Alexander Clark.)
RIDGE, DAVID - - -	2359	7th Aug. 1869	An eccentric lever polygonal boring brace to be used in place or in lieu of the ordinary ratchet brace.
RIDLEY, JAMES CARTMELL -	1240	22nd April 1869	Treating waste rails, tyres, ingots, crop ends of rails and other scrap of Bessemer and similar steel, in order to utilize them.
RIGBY, JOHN MACVICAR -	3283	13th Nov. 1869	Machinery for cutting or dressing stone.
RIGG, ARTHUR, junior - -	2174	19th July 1869	Improved mechanism for starting and working steam-engines, partly applicable to other purposes.
RIGNALL, JAMES - - -	3078	22nd Oct. 1869	Reaping-machines.
RIHOUX, EMILE - - -	2348	6th Aug. 1869	A life preserving dress.
RILEY, JAMES - - -	1793	10th June 1869	Roofs and other parts of buildings.
RILEY, JAMES - - -	3051	20th Oct. 1869	Machinery for cutting, shaping and dressing stone.
RILEY, JAMES - - -	3234	10th Nov. 1869	Roofs and other parts of buildings.
RILEY, JOHN - - -	897	24th March 1869	Fire-arms.
RIPLEY, ABRAHAM - - -	3517	4th Dec. 1869	A new or improved pipe wrench.
RITCHIE, GEORGE - - -	1348	1st May 1869	Construction of stop hinges.
RITCHIE, GEORGE - - -	2370	7th Aug. 1869	Construction of tents and sunshades or weather protectors suitable for carriages and other vehicles.
RITCHIE, GEORGE - - -	3372	22nd Nov. 1869	Tents, weather protectors, sunshades and umbrellas.
RITCHIE, JOHN - - -	2551	27th Aug. 1869	Construction of tents and sunshades or weather protectors suitable for carriages and other vehicles.
RITCHIE, JOHN - - -	3372	22nd Nov. 1869	Tents, weather protectors, sunshades and umbrellas.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
RITCHIE, JOSIAH - - -	833	18th March 1869	Improvements in fly wheels and other constructions, rendering the same heavy or light as may be required.
RITCHIE, THOMAS - - -	1459	12th May 1869	Improvements in saw teeth and in machinery or apparatus for forming the same. (Patented by John Henry Johnson.)
RIVENC, DAVID - - -	193	21st Jan. 1869	Apparatus for cutting or shaping millstones.
RIVINGTON, WILLIAM JOHN -	3079	22nd Oct. 1869	Counting and registering apparatus.
RIVOIRON, ETIENNE - - -	150	16th Jan. 1869	Manufacture of figured shawls and other woven fabrics. (Patented by William Robert Lake.)
ROBBINS, EDWARD - - -	3339	19th Nov. 1869	An improved railway carriage for passengers. (Patented by William Newton MacCartney.)
ROBBINS, EDWIN - - -	41	6th Jan. 1869	Improvements in the manufacture of decorative and perforated or tubular casts, slabs, blocks or other forms, and in the application thereof to the construction of buildings and other purposes.
ROBBINS, JOHN - - -	1054	7th April 1869	Pumps for raising and forcing liquids.
RÖBER, BERNHARD - - -	2614	4th Sept. 1869	Velocipedes. (Patented by Friedrich Heinrich Wilhelm Heuer.)
ROBERGE, DAVID - - -	1546	19th May 1869	An improvement in shoes for horses and other animals.
ROBERT, ALFRED - - -	2772	23rd Sept. 1869	Improved apparatus for drying grain and other granular substances. (Patented by William Edward Newton.)
ROBERT, JULIUS - - -	1498	17th May 1869	Mode of extracting the juice from sugar cane, beetroot and other plants. (Patented by Ferdinand Kohn.)
ROBERTS, HENRY - - -	2499	21st Aug. 1869	Springs for wheeled vehicles. (Patented by Alexander Melville Clark.)
ROBERTS, JAMES - - -	1129	13th April 1869	Draw plates or fire fasteners.
ROBERTS, JOHN - - -	234	25th Jan. 1869	Improvements in the manufacture of moulds for casting and in machinery or apparatus to be employed in the said manufacture.
ROBERTS, JOHN HENRY - - -	2984	14th Oct. 1869	Breaks for railway carriages.
ROBERTS, ROBERT - - -	1775	9th June 1869	Mechanical and artificial dentistry.
ROBERTS, SAMUEL - - -	234	25th Jan. 1869	Improvements in the manufacture of moulds for casting and in machinery or apparatus to be employed in the said manufacture.
ROBERTS, WALTER WILLIAM -	2266	26th July 1869	New and improved insulating mouldings and stands for walls and household furniture, for the prevention of vermin.
ROBERTSON, DAVID - - -	3529	7th Dec. 1869	A new or improved arrangement of apparatus for forcing and projecting liquids and fluids.
ROBERTSON, JAMES - - -	3677	20th Dec. 1869	Machinery for treating and shaping metals.
ROBERTSON, JAMES WALKER -	113	14th Jan. 1869	Improvements in the permanent way of railways, which improvements are also applicable for works where wedges are used. (Patented by Henry Vavasour and Charles Martin Wade.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
ROBERTSON, JOHN - - -	647	3rd March 1869	Blowing apparatus for smiths' forges and portable hearths.
ROBERTSON, JOHN STEWART -	3544	8th Dec. 1869	Horse-shoes for frosty or snowy weather.
ROBERTSON, WILLIAM - - -	802	16th March 1869	Self acting mules and twiners.
ROBEY, JAMES - - -	1450	12th May 1869	Sugar refining.
ROBEY, ROBERT - - -	3483	1st Dec. 1869	Steam-engine governors and apparatus connected therewith.
ROBINS, WILLIAM BURNET -	1344	1st May 1869	Improvements in hand pumps or syringes and in other pumps suitable to be used for watering flowers and for other similar purposes.
ROBINS, WILLIAM BURNET -	3046	19th Oct. 1869	Syringes and other apparatus for throwing water for watering plants and similar purposes.
ROBINSON, BENJAMIN - - -	1879	18th June 1869	Permanent way of railways. (Patented by William Robert Lake.)
ROBINSON, EDWARD H. - - -	2292	29th July 1869	Application of springs to chairs, couches or other seats and beds. (Patented by Daniel Rippon Kilpatrick.)
ROBINSON, HENRY - - -	1456	12th May 1869	Construction of kilns for burning limestone, chalk, cement, or for calcining ores.
ROBINSON, HENRY - - -	3244	11th Nov. 1869	Construction of kilns for burning limestone, chalk, cement, or for calcining ores, part of which being applicable to blast furnaces.
ROBINSON, JAMES - - -	1976	30th June 1869	Means or apparatus for preserving animal and vegetable substances. (Communicated by Samuel Henry Davis, David Williamson Davis and Frederick Haville Date.)
ROBINSON, JOHN - - -	2049	7th July 1869	Machinery for cutting dovetails.
ROBINSON, JOHN VINCENT -	853	20th March 1869	Production of negatives applicable for photographic printing and for obtaining raised printing surfaces.
ROBINSON, JOHN WILSON -	3009	15th Oct. 1869	Improvements in the burning of liquid carbons, as the tarry residues left in the refining of mineral oils, as a fuel in furnaces, and in the construction and arrangement of apparatus and furnaces therefor.
ROBINSON, RICHARD CARDWELL	2560	28th Aug. 1869	An improved construction of stove or fire-grate.
ROBINSON, SAMUEL - - -	2484	19th Aug. 1869	Construction of glass houses for horticultural and other purposes.
ROBINSON, THOMAS - - -	3187	1st Nov. 1869	Improvements in the treatment of pyrites and in obtaining products therefrom.
ROBINSON, THOMAS - - -	3731	24th Dec. 1869	Improvements in the treatment of pyrites and in obtaining products therefrom.
ROBINSON, WALTER - - -	1231	21st April 1869	Manufacture of thin sheets or plates of steel or of steel and iron.
ROBINSON, WILLIAM ASPLEY -	215	23rd Jan. 1869	Graduating the admission of steam to the cylinders of locomotive and other steam-engines, by means of the reversing and regulator gearing. (Patented by John Orton.)
ROCHATTE, HIPPOLYTE - - -	3258	11th Nov. 1869	Breech-loading fire-arms with central percussion.
ROCHE, CHARLES PIERRE [ETIENNE.]	2108	13th July 1869	Conversion of cast iron into a metal having a steelified nature or forgeable steel.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
RODGERS, JOHN - - -	64	8th Jan. 1869	A saw hardening furnace, steam-boilers and brewing pans, to consume its own smoke and save fuel.
ROE, EDWARD - - -	1991	1st July 1869	Improvements in the manufacture of looped or knitted fabrics, and in the machinery or apparatus employed therein.
ROE, EDWARD - - -	2999	14th Oct. 1869	Improvements and additions in or to machinery or apparatus for the manufacture of looped or knitted fabrics and also of warp and weft fabrics.
ROECKNER, CARL HEINRICH -	3718	23rd Dec. 1869	Process and method of disintegrating wood.
ROFF, ALMON - - -	1820	14th June 1869	An improved attachment for and mode of actuating ships' pumps. (Patented by William Edward Newton.)
ROGERS, HENRY JOHN - -	2723	18th Sept. 1869	Weighing scales. (Communicated by Peter Falardo.)
ROGERS, JOHN BANTING -	2044	7th July 1869	Velocipedes, motive apparatus and wheels for the same and for other uses.
ROGERS, WALTER - - -	3026	18th Oct. 1869	Improvements in the manufacture of balls and mallets used in the game of croquet and other games, and in apparatus employed therein.
ROGERS, WILLIAM HENRY -	1199	19th April 1869	Improvements in friction matches and in match boxes or holders for containing the same. (Patented by Alfred Vincent Newton.)
ROLFE, EDWARD - - -	1720	3rd June 1869	Certain improvements in utilizing for commercial purposes the exterior blank spaces of envelopes or other similar covers.
ROLLASON, ALEXANDER - -	2153	16th July 1869	Mode of extracting ammonia, purifying gas liquor and utilising the same.
ROLLIN, ANTOINE - - -	2790	25th Sept. 1869	Buckles or fastenings for braces, belts, bands and other articles. (Patented by John Pemberton Turner.)
ROLLINS, JOHN GUSTAVUS -	2057	8th July 1869	Reaping and mowing machines. (Communicated by James Thayer.)
ROLLINS, JOHN GUSTAVUS -	2261	26th July 1869	Combined reaping and mowing machines. (Communicated by James Thayer.)
ROMAN, LOUIS - - -	1609	25th May 1869	Apparatus or mechanism for obtaining and applying hydraulic motive-power.
ROOT, JOHN BENJAMIN - -	1061	7th April 1869	Steam generators. (Patented by William Edward Newton.)
ROOT, JOHN BENJAMIN - -	1374	4th May 1869	Engines to be used as motors or as pumps for raising or forcing liquid or aeriform bodies. (Patented by William Edward Newton.)
ROOTS, FRANCIS MARION -	3067	21st Oct. 1869	Rotary blowing engines. (Patented by William Robert Luke.)
ROOTS, PHILANDER HIGLEY -	3067	21st Oct. 1869	Rotary blowing engines. (Patented by William Robert Luke.)
ROPER, EDWARD - - -	806	16th March 1869	Production or preparation of printing blocks, plates and cylinders with surfaces in relief and intaglio.
ROQUE, VICTOR JEAN CHARLES	2725	18th Sept. 1869	An improved process for galvanizing metals. (Patented by William Robert Luke.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
ROSE, GEORGE - - -	2874	4th Oct. 1869	Improvements in the construction of annealing pots or pans and muffles, parts of which improvements are also applicable to melting furnaces, heating furnaces, puddling furnaces and other similar furnaces.
ROSE, GEORGE P. - - -	2957	11th Oct. 1869	Permanent way of railways. (Patented by William Robert Lake.)
ROSE, OSWALD - - -	1324	29th April 1869	Steam-engines.
ROSE, OSWALD - - -	3265	12th Nov. 1869	Pistons for steam and other motive engines.
ROSE, PHILIP HENRY - -	2053	7th July 1869	An improved method of and apparatus for removing artificial coatings from metallic surfaces. (Patented by William Robert Lake.)
ROSE, WILLIAM - - -	2192	20th July 1869	An improvement or improvements in bearings for cast-iron rolls and shafts, and other rotating bodies made of cast iron.
ROSS, JAMES - - -	1459	12th May 1869	Improvements in saw teeth and in machinery or apparatus for forming the same. (Patented by John Henry Johnson.)
ROSS, THOMAS, the younger -	681	6th March 1869	Improvements in slides for magic lanterns, which improvements are also applicable for other purposes.
ROSS, WILLIAM ALEXANDER -	3119	27th Oct. 1869	Preserving the surface of iron, steel, copper, brass and other metals or amalgams from being rusted or oxydised by exposure to water or damp air or perspiration.
ROSSETTER, WILLIAM - -	692	8th March 1869	Warping and weaving machinery.
ROSSETTER, WILLIAM - -	2876	4th Oct. 1869	Warping or beaming machines.
ROSSIGNOL, ALEXANDRE [AMÉDÉE.]	1560	20th May 1869	Certain improvements in electric clocks.
ROST, CHARLES HERMANN -	1525	18th May 1869	An improved mode of and apparatus for manufacturing paper hangings. (Patented by Alfred Vincent Newton.)
ROST, CHARLES HERMANN -	2954	11th Oct. 1869	An improved mode of and apparatus for manufacturing paper hangings. (Patented by Alfred Vincent Newton.)
ROTH, GEORGE - - -	2659	10th Sept. 1869	Central-fire cartridges for breech-loading fire-arms. (Patented by Alexander Horace Brandon.)
ROUART, STANISLAS HENRI -	388	8th Feb. 1869	An improved manometro-barometric apparatus and vacuum gauge, applicable also as a safety valve. (Patented by Bristow Hunt.)
ROUND, EDWIN - - -	484	17th Feb. 1869	Vessels for holding and cooling or warming fluids or solids.
ROUND, EDWIN - - -	3381	23rd Nov. 1869	An improved indicator for marking games of skill or chance or other like purposes.
ROURKE, MARTIN - - -	814	17th March 1869	Improved combinations of textile fabrics and paper for oil and tar cloths, floor cloths, tarpauling, table covers and similar articles, and the mode of manufacturing the same.
ROUSSEAU, LOUIS - - -	2645	8th Sept. 1869	Metallic packing for piston rods and other purposes. (Patented by William Edward Newton.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
ROUTLEDGE, THOMAS - -	1855	16th June 1869	Preparation of materials for the manufacture of paper.
ROUYER, VICTOR LÉANDRE [EMILE.	2141	15th July 1869	Agricultural implements. (Patented by John Henry Johnson.)
ROW, RICHARD WHITEFIELD -	388	8th Feb. 1869	Solitaires, links and fasteners applicable to gloves, belts, bands and other like articles.
ROWAN, JOHN MARTIN - -	3253	11th Nov. 1869	Steam-engines and boilers.
ROWCLIFFE, JOHN BARNOUIN	688	8th March 1869	Manufacture of wire cloth for paper-making machines.
ROWCLIFFE, JOHN BARNOUIN	988	1st April 1869	Manufacture of wire cloth for paper-making machines.
ROWLEY, GEORGE WHITFIELD	455	15th Feb. 1869	Saws. (Patented by Bristow Hunt.)
ROWLEY, GEORGE WILLIAM -	3000	15th Oct. 1869	An improved ladies' and children's combined under garment.
ROWLEY, JOHN - - -	2222	22nd July 1869	Manufacture of certain coal tar products.
ROYEN, JAN BAREND HEN- [RIK VAN.	690	8th March 1869	An improved apparatus for raising water. (Patented by William Armand Gilbee.)
ROYSE, ISAAC - - -	3487	2nd Dec. 1869	Bowls or rollers used in calendering and other pressing or squeezing machinery.
ROZAN, — - - -	3292	15th Nov. 1869	A new or improved process for refining and desilvering lead, and apparatus employed for that purpose. (Patented by Charles Denton Abel.)
RUDOLPH, BRUNO - - -	338	3rd Feb. 1869	Sewing machinery. (Patented by Alfred Vincent Newton.)
RUDOLPH, BRUNO - - -	1305	28th April 1869	An improvement in sewing-machines.
RUDRUM, FREDERICK - -	885	23rd March 1869	Velocipedes.
RUE, JULES MARIE DE LA -	425	10th Feb. 1869	An improved water velocipede. (Patented by William Robert Lake.)
RUE, WILLIAM FREDERICK DE [LA.	1462	12th May 1869	An improved method of obtaining a water mark on paper and in apparatus employed therein.
RUGGIERI, EUGÈNE FRANÇOIS [DESIRÉ.	2166	17th July 1869	Improvements in blasting and in the apparatus or means employed therein. (Patented by John Henry Johnson.)
RUIZ, ARMAND - - -	3317	17th Nov. 1869	Improvements in spinning looms and in the spindles employed therein.
RUIZ, LOUIS MARIA - -	694	8th March 1869	Improvements in purifying and clarifying all sorts of oils, whether mineral, vegetable or animal, and in apparatus therefor. (Communicated by Jacques Marie Benoni Beduchaud.)
RULE, ROBERT - - -	735	10th March 1869	Weaving ornamental fabrics.
RUSH, HENRY SAMUEL - -	3553	9th Dec. 1869	Railway chairs.
RUSHBROOK, JOHN BRYANT -	552	22nd Feb. 1869	An improved hurdle for folds for lambs and sheep.
RUSHBROOK, JOHN BRYANT -	2436	14th Aug. 1869	An improved hurdle for folds for lambs and sheep.
RUSHWORTH, ALFRED - -	1687	1st June 1869	Improvements in circular knitting machines and in the fabric produced thereon.
RUSKELAND, OLE - - -	2061	8th July 1869	Machinery for the manufacture of fish hooks. (Patented by Isaiah Williams and Rasmus Carolus Hansen Wallendahl.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
RUSS, BARNABAS - - -	2154	17th July 1869	Bicycles, velocipedes and manumotive carriages.
RUSS, EDWIN - - -	2904	6th Oct. 1869	Breech-loading fire-arms.
RUSSELL, ALEXANDER - -	3202	4th Nov. 1869	Apparatus for making tucks or plaits applicable to sewing-machines.
RUSSELL, SAMUEL - - -	137	16th Jan. 1869	Velocipedes and manumotive carriages.
RUST, JESSE - - -	621	1st March 1869	A new or improved composition specially applicable for use for pictorial and decorative purposes.
RUST, WILLIAM BUTLER -	2351	6th Aug. 1869	An improved portfolio or case for the preservation of letters and documents in an alphabetical or other orderly manner.
RUSTON, EDWARD DAVID -	237	26th Jan. 1869	Improvements in supporting and fixing window sashes, which improvements are also applicable to the supporting and fixing of the windows of railway and other carriages, and suspended doors and shutters.
RYE, E. - - -	3151	30th Oct. 1869	A new or improved photographic process for preparing printing surfaces. (Patented by John Clayton Newburn.)

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SABOT, JEAN - - -	3075	22nd Oct. 1869	Sewing-machines. (Patented by Henri Adrien Bonneville.)
SACRÉ, CHARLES - - -	3150	30th Oct. 1869	Manufacture of wrought iron or malleable metal of steely quality.
SAGAR, THOMAS - - -	480	17th Feb. 1869	Certain improvements in looms for weaving.
SAGAR, THOMAS - - -	2428	14th Aug. 1869	Certain improvements in looms for weaving.
SAGAR, THOMAS - - -	3580	11th Dec. 1869	Looms and healds for weaving.
SAINTGEOT, CLOVIS DESIRÉ -	3285	13th Nov. 1869	Preventing and removing incrustations in steam-boilers.
SALA, JEAN - - -	1752	5th June 1869	Reins for controlling saddle horses. (Patented by William Robert Lake.)
SALISBURY, SILAS COVELL -	3132	28th Oct. 1869	Steam-boilers and generators.
SALOM, SALOM HENRY - -	3356	20th Nov. 1869	An improved apparatus or instrument for clipping or shearing the hair of horses and other animals.
SALT, GEORGE - - -	1598	24th May 1869	Improvements relating to steam-engine governors and admission or throttle valves.
SALVESEN, CHRISTIAN - -	1700	2nd June 1869	Manufacture or preparation of lubricants or softeners, and the application of the same to the treatment of hemp, jute, flax and other like fibrous materials.

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AND APPLICANTS FOR PATENTS OF INVENTION.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SAMIER, FELIX FRANÇOIS -	3185	3rd Nov. 1869	Metallic vessels intended to prevent all liquid or solid inflammable substances from igniting.
SAMS, JOSEPH HENRY - -	1298	27th April 1869	Seed sowing-machines.
SAMS, JOSEPH HENRY - -	3627	15th Dec. 1869	Seed sowing-machines and manure distributors.
SAMUELSON, MARTIN - -	1139	13th April 1869	An improved combined metallic envelope and filling plate to be used in expressing oil or fatty matters from seeds or other oil or fat yielding substances, and especially in the manufacture of oil cake.
SANDIFORD, JOHN - - -	2307	31st July 1869	Improvements in pins, pirns or bobbins for shuttles, and in shuttles for pins, pirns or bobbins used in looms for weaving.
SANDS, EDWARD - - -	787	15th March 1869	A new mode of and apparatus for producing motive-power by continuous rotary motion.
SANFORD, JAMES THOMPSON -	2697	15th Sept. 1869	Machinery for the manufacture of felt and other cloths. (Patented by William Edward Newton.)
SARGENT, CHARLES GRANDI- [SON.]	1813	14th June 1869	Machinery for ginning, burring and cleaning cotton and other fibrous substances. (Patented by Colin Mather.)
SARGENT, JAMES - - -	1293	27th April 1869	Locks. (Patented by William Robert Lake.)
SARNEY, THOMAS SEXTON -	3088	23rd Oct. 1869	Metallic keys or wedges for supporting and securing railway rails in their chairs, and a method of manufacturing such keys or wedges.
SARNEY, THOMAS SEXTON -	3572	10th Dec. 1869	Means of fishing or connecting railway rails.
SARONY, OLIVER - - -	385	8th Feb. 1869	Improvements in photographs to give them artistic effect and to produce enlarged and permanent pictures from small negatives.
SAUNDERS, MICHAEL - - -	70	9th Jan. 1869	Refrigerators.
SAUNDERS, ROBERT - - -	1351	1st May 1869	Cable stoppers and controllers.
SAUNDERS, ROBERT - - -	2189	20th July 1869	Improvements in buffing railway carriages and in materials for the same, which is also applicable for springs generally.
SAUNDERS, WILLIAM - - -	705	8th March 1869	An improved detachable standard board frame for dressing bags.
SAUNDERS, WILLIAM - - -	706	8th March 1869	An improved combined chess and cribbage board or table.
SAUNDERS, WILLIAM - - -	726	9th March 1869	An improved combined dressing case and bag.
SAUTTER, MAURICE - - -	3303	16th Nov. 1869	Improved reloading cartridge shell. (Communicated by Richard Jordan Gatling.)
SAWAHN, HENRY - - -	2856	1st Oct. 1869	Apparatus for indicating and registering the distances travelled by vehicles.
SAWYER, JAMES - - -	1533	18th May 1869	Improvements in the mode of and in apparatus for the propulsion of velocipedes and other vehicles.
SAWYER, JOSEPH - - -	2708	17th Sept. 1869	Construction of furnaces for steam-boilers and other purposes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SAX, ALPHONSE ANTOINE -	1662	29th May 1869	An improved system of railway with heli-coidal propulsion.
SAX, JULIUS - - - -	733	10th March 1869	Receiving instruments of A. B. C. telegraphs (magnetic) and bells.
SAXBY, FREDERICK EBENEZER	1494	15th May 1869	A new and improved velocipede.
SCHÄFER, FREDERICK - -	1000	2nd April 1869	Improvements in covers for vessels and an improved clip for bottles placed in such vessels.
SCHALLEIDNER, LOUIS - -	2095	12th July 1869	Machinery or apparatus for stamping wax and other candles.
SCHALLEIDNER, LOUIS - -	3751	28th Dec. 1869	Machinery or apparatus for stamping wax and other candles.
SCHARM, HEINRICH - - -	1822	14th June 1869	Shuttles for weaving. (Patented by John Garrett Tongue.)
SCHARR, JONATHAN - - -	1277	24th April 1869	Manufacture of liquid soap.
SCHARR, JONATHAN - - -	3054	20th Oct. 1869	Manufacture of liquid soap.
SCHIEDT, ERNST - - - -	938	29th March 1869	Improvements in breech-loading fire-arms and in cartridges to be used therewith and with other descriptions of breech-loading fire-arms.
SCHIFF, SALING - - - -	2583	1st Sept. 1869	Certain improvements in the mode of filling or charging pipes for smoking tobacco, and the apparatus or box for containing such pipe, priming, or charges and lights in combination therewith.
SCHILDBERG, HERMANN - -	2915	7th Oct. 1869	Improved signalling apparatus for use in private or public buildings. (Communicated by Hugo Becker.)
SCHIMMEL, OSCAR - - - -	482	17th Feb. 1869	Washing machines. (Patented by Edward Thomas Hughes.)
SCHLOESSER, REINHOLD - -	2178	19th July 1869	A new process of converting wood shavings, flax, tow, hemp, jute, esparto-grass, straw, hay and other materials of a fibrous nature, into paper pulp.
SCHLOSS, SIMON - - - -	194	21st Jan. 1869	Clasps or fastenings for scarfs and other articles of dress. (Patented by Alexander Melville Clark.)
SCHLÖSSER, JULIUS - - -	104	13th Jan. 1869	A new or improved self-acting metallic packing for parts of steam, air, gas, water or other fluid pressure engines, or for pumps or other machinery or apparatus in which packing is required.
SCHMIDT, ALBERT EDWIN - -	1270	24th April 1869	Sewing-machines with rotary spoolhook for protecting spoolhook and bobbin from damage and for preventing breakage of thread and needle. (Patented by Peter Jensen.)
SCHMIDT, FREDERICK LOUIS [HUGO.]	2115	13th July 1869	Breech-loading fire-arms. (Patented by John Barnett.)
SCHOELLER, CHARLES EDWARD	2738	20th Sept. 1869	Construction of copying presses.
SCHOLEFIELD, RICHARD - -	2975	13th Oct. 1869	Pumps or apparatus for raising or forcing water or other liquids or fluids, and for transmitting the motive-power thereof.
SCHOLFIELD, HENRY - - -	3220	9th Nov. 1869	An improved method or means of securing corks in bottles. (Patented by Julius Valentine Michaux.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SCHOMBURG, RUDOLPH - -	1611	25th May 1869	A new apparatus for receiving and discharging cigar and tobacco ashes in railway and other carriages, and which invention is also applicable for advertizing purposes.
SCHOMBURG, RUDOLPH - -	1631	27th May 1869	Manufacture of tablets for advertizing and other purposes. (Patented by Frederick Spray Angel.)
SCHUMAN, SIGISMUND - -	798	16th March 1869	Packing bottles and other frangible articles.
SCHWARZ, CARL HEINRICH -	1425	10th May 1869	Improvements applicable to musical boxes, albums and other similar articles. (Patented by Robert Ferdinand Hoppe.)
SCOLLAY, GEORGE WASHINGTON. [TON.]	3597	13th Dec. 1869	An improved mode of and means for preserving dead human bodies and animal carcases. (Patented by William Robert Lake.)
SCOTT, EDWARD - - -	1995	2nd July 1869	Weighting motions used in machinery for preparing, spinning, twisting and doubling fibrous materials, and for other similar purposes. (Communicated by Windsor, Brothers.)
SCOTT, GEORGE - - -	1666	29th May 1869	Brick moulds as applicable to brick machinery. (Patented by John Joseph Reveley Humes.)
SCOTT, HENRY - - -	119	14th Jan. 1869	Breech-loading fire-arms.
SCOTT, HENRY YOUNG DARRA- [COTT.]	960	30th March 1869	Lime and other kilns.
SCOTT, HENRY YOUNG DARRA- [COTT.]	1200	19th April 1869	Pottery ovens or kilns and glass and other furnaces.
SCOTT, HENRY YOUNG DARRA- [COTT.]	2823	28th Sept. 1869	Pottery, lime and other kilns.
SCOTT, ROBERT - - -	2588	1st Sept. 1869	Treatment of hydrocarbon oils.
SCOTT, ROBERT - - -	3084	23rd Oct. 1869	A process whereby the sulphuric acid residues produced in the refining of oleaginous and bituminous matters may be utilized and employed for the production of sulphate of soda and sulphide of sodium and black ash.
SCOTT, URIAH - - -	1012	3rd April 1869	Improvements in railway and other carriages and various parts of the same, some of which may be used for other purposes.
SCOTT, WILLIAM - - -	396	9th Feb. 1869	Looms for weaving.
SCOTT, WILLIAM - - -	3536	7th Dec. 1869	Furnaces.
SEARLE, HENRY - - -	2706	16th Sept. 1869	Improvements in "envelopes" or "hairs" used in extracting oil from oleaginous seeds and in oil cake making.
SECKBACH, ANTON - - -	381	8th Feb. 1869	Method of and apparatus for preserving, improving and discharging beer and other beverages. (Communicated by Wilhelm Eichman.)
SEED, WILLIAM - - -	1362	4th May 1869	Furnaces for steam-boilers and other purposes.
SEELS, HENRY JOHN - -	1336	30th April 1869	Harrows.
SEHET, ALEXANDRE - -	128	15th Jan. 1869	Breech-loading fire-arms.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SEITZ, CARL DIETRICH JULIUS	375	6th Feb. 1869	Improvements in the construction of furnaces and pans for the recovery of the soda from the waste lyes resulting from the boiling of esparto grass, straw or other fibrous substances in the working and incinerating of the residue resulting from evaporation.
SELLERS, ALFRED HARDY -	1075	9th April 1869	Self-acting safety valves for steam-boilers.
SELLERS, GEORGE H. - -	284	29th Jan. 1869	Improvements in the manufacture of piles, faggots or billets of iron or steel, and in the machinery or apparatus employed therein. (Patented by John Henry Johnson.)
SELLERS, WILLIAM - -	1759	7th June 1869	Sewing-machines.
SELWYN, JASPER HENRY -	2970	13th Oct. 1869	Improvements in fire-arms, parts of which are applicable for use as a digging tool.
SENIOR, BEN - - -	3188	1st Nov. 1869	Carding-engines or machinery for carding wool or other fibrous substances.
SENIOR, GEORGE - - -	12	2nd Jan. 1869	Taps and valves.
SENIOR, GEORGE - - -	1996	2nd July 1869	Valves or valve taps for regulating the discharge or flow of water or other fluids or gases.
SETTLE, THOMAS - - -	2365	7th Aug. 1869	Manufacture of "Marseilles quilts."
SEYD, ERNEST - - -	1401	7th May 1869	Fluid meters. (Communicated by Charles Frederick Jenny.)
SEYFERTH, AUGUST - -	2756	22nd Sept. 1869	A new method of purifying solutions of sugar and syrups, and in apparatus therefor. (Patented by William Robert Lake.)
SEYMOUR, GEORGE - - -	3631	15th Dec. 1869	Construction of ships and vessels to facilitate the steering and propelling the same.
SEYSS AND COMPANY, KU- [KATZKAYS.	3676	18th Dec. 1869	An improved instrument for levelling and for measuring angles. (Patented by William Lloyd Wise.)
SHACKLETON, JOSEPH - -	1354	3rd May 1869	Utilizing the exhaust steam from steam-engines and in apparatus for regulating the discharge or flow thereof.
SHAKESPEAR, THOMAS - -	898	24th March 1869	Sewing-machines.
SHAKESPEAR, THOMAS - -	2524	25th Aug. 1869	Sewing-machines.
SHAKESPEAR, THOMAS - -	3688	20th Dec. 1869	Sewing-machines.
SHAND, JAMES - - -	2582	1st Sept. 1869	Direct-acting steam pumping engines and steam fire-engines.
SHANKS, JOHN - - -	647	3rd March 1869	Blowing apparatus for smiths' forges and portable hearths.
SHANKS, WILLIAM - - -	3523	6th Dec. 1869	Machinery for forging shoes for horses and other animals.
SHARP, JOHN - - -	2802	27th Sept. 1869	Looms for weaving.
SHARPLES, JAMES - - -	796	16th March 1869	Improvements in carding-engines of the class in which the doffing cylinder is divided into spaces, and a novel method of testing and utilizing the slivers from the same.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SHARPLES, JAMES - - -	1929	24th June 1869	Improvements in carding-engines by which the doffer is divided into spaces such that the slivers are at will made of the same weight and their width adjusted, to produce rovings or slubbings suitable for spinning cotton waste and similar substances.
SHARROCK, SAMUEL - - -	1016	3rd April 1869	Construction of roofs.
SHARROCKS, JAMES - - -	2314	2nd Aug. 1869	Improvements applicable to locomotive engines for the purpose of removing obstructions on railways.
SHAW, BENJAMIN - - -	3261	12th Nov. 1869	Machinery for cutting soap.
SHAW, CHARLES ALBERT - -	2639	8th Sept. 1869	An improved knitting machine. (Patented by Henry Bernoulli Barlow.)
SHAW, GEORGE - - -	806	16th March 1869	Production or preparation of printing blocks, plates and cylinders with surfaces in relief and intaglio.
SHAW, GEORGE - - -	2693	15th Sept. 1869	A new or improved combined buckle and button-hole. (Communicated by Louis Alexander Kettle.)
SHAW, GEORGE - - -	2694	15th Sept. 1869	Stoves and furnaces for burning solid fuel. (Communicated by Louis Alexander Kettle.)
SHAW, HENRY FRANKLIN - -	3383	23rd Nov. 1869	Cutters for mowing-machines.
SHAW, JOHN CHARLES - - -	372	6th Feb. 1869	Machinery or apparatus for cutting wire and rods of metal and other materials. (Communicated by William C. Flinn.)
SHAW, JOHN CHARLES - - -	788	15th March 1869	An improved traverse card grinder. (Communicated by Sheffield H. Wright.)
SHAW, NOAH - - -	3218	8th Nov. 1869	Generating steam in steam-boilers and protecting the grate bars in the furnaces under the said boilers.
SHAW, PHILANDER - - -	1201	19th April 1869	An improved feed-water apparatus chiefly designed for supplying and maintaining a proper water level in steam-boilers. (Patented by Sumner Shaw.)
SHAW, RICHARD - - -	2270	26th July 1869	Certain improvements in carding-engines.
SHAW, SAMUEL WILLIAM - -	3270	12th Nov. 1869	Means and method employed for burning bricks.
SHAW, SUMNER - - -	463	16th Feb. 1869	Devices for lacing and buttoning boots and shoes. (Communicated by The Boston Shoe Stud and Button Company (Incorporated).)
SHAW, SUMNER - - -	1201	19th April 1869	An improved feed-water apparatus chiefly designed for supplying and maintaining a proper water level in steam boilers. (Communicated by Philander Shaw.)
SHAW, THOMAS RAMSDEN - -	2798	27th Sept. 1869	Improved means for effecting the removal or discharge of dye-wood from hanks or yarn.
SHAW, WILLIAM HENRY - -	3459	30th Nov. 1869	Improved machinery or apparatus for dressing millstones.
SHEA, CHARLES - - -	2499	21st Aug. 1869	Springs for wheeled vehicles. (Patented by Alexander Melville Clark.)
SHEDLOCK, JAMES JOHN - -	711	9th March 1869	Wet gas-meters.
SHEDLOCK, JAMES JOHN - -	712	9th March 1869	Dry gas-meters.
SHEFFIELD, THOMAS - - -	1027	5th April 1869	Boilers employed for generating steam.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SHEFFIELD, THOMAS - -	1805	25th May 1869	Certain improvements in mathematical instruments to be employed for scribing or drawing geometrical lines.
SHELDON, JOSEPH - - -	3108	26th Oct. 1869	Machinery for manufacturing brushes. (Communicated by Bernard Lavary.)
SHELDON, WILLIAM - - -	2237	23rd July 1869	Points or switches for tramways. (Patented by William Morris.)
SHELLEY, MATTHEW - - -	3327	18th Nov. 1869	An improved vent peg for preserving liquors of all kinds.
SHELMERDINE, SAMUEL - -	1861	16th June 1869	Machinery used for felting or planking the bodies of hats or bonnets.
SHEPARD, EDWIN RILEY -	321	2nd Feb. 1869	Improvements in the construction of the permanent way of railroads and in the means of securing or fastening the various parts. (Patented by William Edward Newton.)
SHETHER, CHARLES - - -	2117	14th July 1869	An improved duplicate lock or fastening for purses, pocket books or other articles.
SHIELS, JAMES MACKENZIE -	3669	18th Dec. 1869	Improvements in preparing malt or grain for brewing or distilling, and in the means or apparatus employed therefor.
SHORE, JOHN - - - -	2040	7th July 1869	Cards used in carding-engines and other similar machinery.
SHORE, SYDNEY FOYE - - -	1118	12th April 1869	Apparatus for propelling railway carriages, trucks and other vehicles.
SHOTWELL, JACOB RANDOLPH	1135	13th April 1869	An improved construction of fan blower. (Patented by Alfred Vincent Newton.)
SIBLEY, THOMAS - - - -	1378	5th May 1869	Velocipedes.
SICKELS, GERARD - - - -	90	12th Jan. 1869	Water meters. (Patented by Bristow Hunt.)
SICKELS, GERARD - - - -	2264	26th July 1869	Valves. (Patented by Bristow Hunt.)
SICKELS, GERARD - - - -	2276	27th July 1869	A new and useful mechanism, apparatus or engine to be used either in measuring water discharged from a conduit or for various other useful purposes. (Patented by Thomas Parsons.)
SICKELS, GERARD - - - -	2350	6th Aug. 1869	A new or improved numbering register or apparatus. (Patented by Bristow Hunt.)
SIDDELEY, JOHN - - - -	178	20th Jan. 1869	Means and apparatus for cooling, refrigerating and ice making.
SIEMENS, CHARLES WILLIAM	1575	21st May 1869	Improvements in calcining and smelting ores and in furnaces and apparatus employed in connection therewith, which furnaces are also applicable to other purposes.
SIEMENS, CHARLES WILLIAM	2988	14th Oct. 1869	Improvements in smelting iron and steel, and in apparatus and furnaces employed in connection therewith.
SIGLER, MUNSON - - - -	871	22nd March 1869	Mechanism for regulating the tension of the warp in weaving looms.
SILMAN, JAMES - - - -	259	27th Jan. 1869	Manufacture of knives for cutting out the soles of boots and shoes.
SILVER, ALBERT MARCIUS -	3669	20th Dec. 1869	Improvements in apparatus for indicating time, partly applicable to revolving apparatus for other purposes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SILVER, HUGH ADAMS - -	142	16th Jan. 1869	Apparatus for cooking and other purposes.
SILVER, THOMAS - - -	1881	19th June 1869	An improved device for holding letters, bills and other papers. (Communicated by L. H. Olmsted.)
SIM, THOMAS - - - -	933	27th March 1869	Certain new and useful improvements in processes and apparatus for extracting oleaginous matter from vegetable, animal or mineral substances in the preparation of material for distillation and the manufacture of starch, sugar and fertilizing agents. (Patented by Benjamin Joseph Barnard Mills.)
SIMCOE, ELLEN - - -	3584	11th Dec. 1869	An improved case or portfolio for filing music and business and other papers.
SIMMONDS, THOMAS HENRY -	533	20th Feb. 1869	An improved compound for glazing or "finishing" linen-faced paper used in the manufacture of collars and cuffs and for other purposes.
SIMON, LOUIS - - -	1653	28th May 1869	An improved machine for cutting and scoring pasteboard and similar materials, one or several times at one operation.
SIMON, RICHARD - - -	1653	28th May 1869	An improved machine for cutting and scoring pasteboard and similar materials, one or several times at one operation.
SIMON, WILLIAM GRAHAM -	683	6th March 1869	An improved hank for hoisting and lowering fore and aft sails, which invention may be also applied to cranes and other hoisting apparatus, and to reducing friction.
SIMONDS, WILLIAM EDGAR -	2235	22nd July 1869	Telegraph wire insulators. (Patented by William Robert Lake.)
SIMONS, EDWARD - - -	216	23rd Jan. 1869	Improved means of communicating between passengers, guard and engine driver upon railway trains.
SIMONS, EDWARD - - -	2984	14th Oct. 1869	Breaks for railway carriages.
SIMPSON, ALEXANDER - -	2161	17th July 1869	Improved apparatus for cleaning knives.
SIMPSON, ARTHUR LANKESTER	1710	2nd June 1869	Compositions suitable for treating sheep attacked by fly and for destroying the maggot, and for other similar purposes.
SIMPSON, CHARLES - - -	3109	27th Oct. 1869	Manufacture of miniature or toy bricks for the use of children for model or architectural building and for artistic or engineering purposes, together with the apparatus in connection therewith.
SIMPSON, GEORGE - - -	3252	11th Nov. 1869	Arrangements or apparatus for withdrawing beverages or other liquids from casks or other vessels, and for elevating the same.
SIMPSON, JOHN - - - -	3562	9th Dec. 1869	Vices. (Patented by William Robert Lake.)
SIMPSON, JOHN HAWKINS -	1303	27th April 1869	Improvements in the means, machinery or apparatus used in the propulsion of trains by currents of air, parts of said improvements being applicable to other purposes where blowing and exhausting or refrigerating apparatus or pulley arrangements are required.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SIMPSON, STEPHEN - -	2666	11th Sept. 1869	Machinery for drawing fine wire.
SIMPSON, WILLIAM - -	623	1st March 1869	Construction of engines worked by steam or other motive-power.
SINCAY, LOUIS ALEXANDRE [CALLEY ST. PAUL DE.	399	9th Feb. 1869	Metallic tiles for roofing purposes.
SINCLAIR, GEORGE - -	3193	3rd Nov. 1869	Improvements in treating wood and other vegetable fibrous materials for the production of paper pulp, and in the boilers and apparatus employed therefor.
SINCLAIR, ROBERT - -	3664	18th Dec. 1869	Apparatus to promote circulation in steam-boilers. (Patented by William Foulds.)
SINGER MANUFACTURING [COMPANY.	957	30th March 1869	An improved construction of sewing-machine table. (Patented by William Fash Proctor.)
SINGLETON, THOMAS - -	2	1st Jan. 1869	Improvements in machinery or apparatus used in the preparation of yarn, and in the manufacture thereof into textile fabrics.
SINNOCK, WILLIAM - -	3758	29th Dec. 1869	Machinery for crushing ores.
SIPRIOT, CASIMIR - -	3560	9th Dec. 1869	An improved apparatus for exhibiting placards, posting-bills and other advertisements.
SIX, ALEXANDRE - - -	268	28th Jan. 1869	Machinery or apparatus for washing, wincing, fulling and finishing textile fabrics. (Patented by Charles Denton Abel.)
SKEKEL, ALEXANDER - -	476	16th Feb. 1869	Improvements in feeding begass furnaces and in begass furnaces, and in apparatus applied thereto. (Patented by John Fletcher.)
SKEKEL, DONALD - - -	476	16th Feb. 1869	Improvements in feeding begass furnaces and in begass furnaces, and in apparatus applied thereto. (Patented by John Fletcher.)
SLADE, ELIZABETH WOOLCOTT	778	13th March 1869	An improved portable oven or cooking apparatus.
SLADE, MAXIMELIA - -	778	13th March 1869	An improved portable oven or cooking apparatus.
SLATER, JAMES - - -	475	16th Feb. 1869	Carriage wheels.
SLATER, JAMES - - -	1608	25th May 1869	Carriage wheels.
SLATER, JOHN - - -	325	3rd Feb. 1869	Railway carriages.
SLATER, THOMAS - - -	2597	3rd Sept. 1869	Improvements in the construction of electro-magnetic machines as motors, and in the construction and mode of exciting batteries, and in the application of such motors and batteries to various useful purposes.
SLEIGH, ADDERLEY - -	1333	30th April 1869	Means of and mechanism for obtaining motive-power.
SLIGHT, ROBERT NICHOLSON -	3484	1st Dec. 1869	Improvements in the straining of paper pulp and in the machinery, mechanism or apparatus therefor or connected therewith.
SLOAN, CHARLES - - -	1567	20th May 1869	Boat-detaching apparatus. (Patented by William Robert Lake.)
SLOPER, JOSEPH - - -	643	3rd March 1869	Machines or apparatus for perforating, punching, cutting or stamping cardboard, metal and other materials.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SMARTT, WALTER - - -	468	16th Feb. 1869	A new mode or method of utilizing the heat under ordinary fire-places, and the apparatus for effecting the same.
SMELLIE, WILLIAM - - -	3150	30th Oct. 1869	Manufacture of wrought iron or malleable metal of steely quality.
SMETHURST, EMANUEL - - -	2892	5th Oct. 1869	Funnels or funnel measures for the measuring and pouring of liquids into vessels.
SMILES, JAMES - - -	3665	18th Dec. 1869	Breech-loading fire-arms.
SMITH, — - - -	1510	17th May 1869	Revolving fire-arms. (Patented by William Robert Lake.)
SMITH, ALEXANDER - - -	2290	29th July 1869	Improvements in treating and refining crude mineral, petroleum and other hydrocarbon oils, and in the means or apparatus employed therefor.
SMITH, ANDREW - - -	1191	19th April 1869	Ornamenting hats, caps, bonnets and other coverings for the human head.
SMITH, CHARLES - - -	3369	22nd Nov. 1869	Shuttles for weaving.
SMITH, CURRY - - -	705	8th March 1869	An improved detachable standard board frame for dressing bags.
SMITH, CURRY - - -	706	8th March 1869	An improved combined chess and cribbage board or table.
SMITH, CURRY - - -	726	9th March 1869	An improved combined dressing case and bag.
SMITH, EDMUND - - -	1816	14th June 1869	Connecting pipes or tubes. (Patented by Edward Griffith Brewer.)
SMITH, EDWIN - - -	1702	2nd June 1869	Improvements in the mode of cutting and skiving leather and other materials, and in means or apparatus employed therein.
SMITH, FRANK WILLIAM - -	427	11th Feb. 1869	Construction of pianofortes.
SMITH, FREDERIC JOHN - -	2110	13th July 1869	Effervescing and aerated drinks and waters.
SMITH, GEORGE - - -	5	1st Jan. 1869	Machinery for clipping horses and sheep, also applicable to reaping grain, reaping sugar cane, for cutting down trees, cutting cloth and for other similar purposes.
SMITH, GEORGE - - -	33	5th Jan. 1869	Improvements in furnaces for the consumption of smoke.
SMITH, GEORGE - - -	756	11th March 1869	Finishing woollen cloths and mixed fabrics.
SMITH, GEORGE - - -	1252	23rd April 1869	An improved axle and axle-box for railway carriages and waggons. (Patented by Samuel Smith.)
SMITH, GEORGE - - -	1702	2nd June 1869	Improvements in the mode of cutting and skiving leather and other materials, and in means or apparatus employed therein.
SMITH, GEORGE HENRY - -	996	2nd April 1869	Improved means and apparatus for indicating when eggs, vegetables and other substances are sufficiently cooked or heated.
SMITH, GEORGE THOMAS - -	1955	28th June 1869	A new or improved material or composition applicable to the manufacture of floor cloths, tarpaulins, railway sheets and other water-proof fabrics.
SMITH, HENRY - - -	3013	15th Oct. 1869	Improvements in dish covers and in the manufacture of same.
SMITH, HERBERT GEORGE - -	427	11th Feb. 1869	Construction of pianofortes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SMITH, HUBERT - - -	1757	7th June 1869	Reaping and mowing machines.
SMITH, JAMES - - -	2036	6th July 1869	Construction of taps or valves.
SMITH, JAMES HENRY - -	1708	2nd June 1869	Velocipedes.
SMITH, JAMES PLUMER - -	2006	2nd July 1869	Meters for measuring liquids. (Patented by Henry Edward Newton.)
SMITH, JOHN - - -	1296	26th April 1869	Self-acting signal apparatus for preventing collisions on railways.
SMITH, JOHN - - -	1340	30th April 1869	An improved method of communication between passengers in railway trains and the persons in charge of such trains.
SMITH, JOHN - - -	1819	14th June 1869	Reaping and mowing machines.
SMITH, JOHN - - -	2973	13th Oct. 1869	Instruments for timing ships' logs.
SMITH, JOHN - - -	3497	3rd Dec. 1869	Working and reversing the valves of steam and other engines.
SMITH, JOHN - - -	3685	20th Dec. 1869	Manufacture of pile fabrics.
SMITH, JOHN BURNS - -	2640	8th Sept. 1869	Mules for spinning. (Patented by Samuel Oddy and Robert Nuttall.)
SMITH, JOHN JOSEPH CHARLES	1443	11th May 1869	Improvements in casting metals under pressure and in apparatus and appliances therefor. (Patented by Benjamin Joseph Barnard Mills.)
SMITH JOHN WATT - - -	252	27th Jan. 1869	Treating smoke and soot for the preparation of an article of commerce therefrom.
SMITH, JOSEPH - - -	1664	29th May 1869	Improvements in apparatus for holding the bobbins on the tubes or spindles of spinning and cap frames, also for regulating the drag of the thread passing on to the bobbins of common spinning frames.
SMITH, JOSIAH TIMMIS - -	124	15th Jan. 1869	Converting vessels used in the manufacture of iron and steel.
SMITH, NATHANIEL - - -	1702	2nd June 1869	Improvements in the mode of cutting and skiving leather and other materials, and in means or apparatus employed therein.
SMITH, PHILIP JOHN - - -	427	11th Feb. 1869	Construction of pianofortes.
SMITH, RICHARD - - -	63	11th Jan. 1869	Improvements in the manufacture of boxes and other hollow articles from paper pulp, and in the machinery or apparatus employed therein. (Patented by John Henry Johnson.)
SMITH, RICHARD - - -	1148	14th April 1869	Construction of indicators for indicating the distance travelled by carts, waggons, carriages or vehicles of every description.
SMITH, ROBERT - - -	3279	13th Nov. 1869	Certain improvements in the manufacture of paper-hangings.
SMITH, SAMUEL - - -	1252	23rd April 1869	An improved axle and axle-box for railway carriages and waggons. (Communicated by George Smith.)
SMITH, SAMUEL - - -	2434	14th Aug. 1869	Common road carriages.
SMITH, SAMUEL EDMONDS -	2699	15th Sept. 1869	Manufacture of cages for birds, squirrels and other animals.
SMITH, SAMUEL MILNE - -	2312	2nd Aug. 1869	Dyeing certain textile fabrics.
SMITH, SYDNEY - - -	281	29th Jan. 1869	Taps or valves for regulating the flow of steam, water and other fluids.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SMITH, THOMAS - - -	515	19th Feb. 1869	Treatment of flannel, carpets, druggets, tweeds, trowserings, broad and other woollen cloths.
SMITH, THOMAS - - -	2020	5th July 1869	An improved means of utilising the waste heat of puddling and ball furnaces for the calcination of ciuder into bulldog for furnace fettling, and an improved means for preventing the adhesion of the same substance in large masses.
SMITH, WILLIAM - - -	1095	10th April 1869	Certain improvements in looms for weaving.
SMITH, WILLIAM - - -	1832	15th June 1869	Treating or purifying mineral oils.
SMITH, WILLIAM ANDERSON -	319	2nd Feb. 1869	Improvements in the preservation of meat, fish and other perishable articles of food, during their carriage by railway, and in apparatus connected therewith.
SMITH, WILLIAM BORTHWICK	1428	10th May 1869	Construction of watches, chronometers and other time keepers.
SMITH, WILLIAM HENRY, the [younger.	1196	19th April 1869	Improvements in lavatories and in taps, valves and fittings to be used in connection therewith for regulating the admission and discharge of water, which taps and valves are also applicable to other purposes. (Communicated by Auguste A. Guillot.)
SMITH, WILLIAM WILMER [HENRY.	2132	15th July 1869	New or improved machinery to be used in the manufacture of upper leathers for boots and shoes, and other articles made wholly or mainly of leather.
SMITHERS, JOSEPH - - -	2003	2nd July 1869	Galvanic batteries.
SMITHSON, SAM - - -	12	2nd Jan. 1869	Taps and valves.
SMITHSON, SAM - - -	1996	2nd July 1869	Valves or valve taps for regulating the discharge or flow of water or other fluids or gases.
SMYTH, DAVID McCONNELL -	1408	7th May 1869	Machinery or apparatus for the manufacture of envelopes. (Patented by John Garrett Tongue.)
SNAPE, JOHN - - -	1629	27th May 1869	Pumps.
SNELL, EDWARD - - -	3190	3rd Nov. 1869	Improved compounds or compositions in imitation of marble, veneer and other substances to be used in the manufacture of fancy and other articles.
SNELUS, GEORGE JAMES -	616	27th Feb. 1869	An improved mode of and means for reducing iron ores.
SNOOK, ROBERT - - -	371	6th Feb. 1869	Cocks, taps and valves for regulating the supply of steam or water or other fluids.
SNOW, THOMAS - - -	3268	12th Nov. 1869	An improved column for exhibiting notices at railway stations and other public places.
SNUGGS, EVERETT AUSTIN -	2959	12th Oct. 1869	Cocks, taps and valves.
SOLLY, ARTHUR ISAAC - -	1537	19th May 1869	An improved method of spinning or twisting two or more ends of yarn, and simultaneously twisting the same into one thread.
SOLLY, EDWARD HARRISON -	1537	19th May 1869	An improved method of spinning or twisting two or more ends of yarn, and simultaneously twisting the same into one thread.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SORDOILLET, JOSEPH FRANCOIS	3573	10th Dec. 1869	Improvements in the ornamentation of shell brooches and other articles of this material. (Patented by Alexander Melville Clark.)
SOUTHEY, ANTHONY GAPPER -	540	22nd Feb. 1869	An improved method of and apparatus for preparing esparto, straw, rags or other materials for the manufacture of paper.
SOUTHEY, ANTHONY GAPPER -	773	13th March 1869	Paper making.
SOUTHERN, PETER - - -	1361	3rd May 1869	Furnaces.
SOWDEN, DAVID - - -	2937	9th Oct. 1869	Looms for weaving.
SOWDEN, THOMAS - - -	918	25th March 1869	Improvements in bobbins and in regulating the motion of bobbins in machinery for preparing, spinning, doubling, warping and reeling flax, cotton and other fibres, and in other machinery in which bobbins are used.
SPAGNOLETTI, CHARLES ER- [NESTO.	3038	18th Oct. 1869	Apparatus for signalling by means of electricity.
SPARTALI, NICHOLAS DE- [METRIUS.	174	19th Jan. 1869	An improved mode of and apparatus for propelling vessels.
SPEAR, ROBERT - - -	2600	3rd Sept. 1869	Transmitting power for operating marine signals and for other purposes, by means of air or fluid.
SPEAR, ROBERT - - -	3719	23rd Dec. 1869	Pneumatic engines for raising water, more especially designed for draining mines.
SPEAR, ROBERT - - -	3720	23rd Dec. 1869	Governors for steam and other engines.
SPEIGHT, JOHN - - -	205	22nd Jan. 1869	Machinery or apparatus for spinning, twisting or doubling and roving wool or other fibrous substances.
SPEIGHT, JOHN - - -	3458	29th Nov. 1869	Machinery or apparatus for spinning, twisting and roving worsted or other fibrous substances.
SPENCE, JAMES MUDIE - -	2771	23rd Sept. 1869	Manufacture of disinfectants, applicable also to the preservation of manures.
SPENCE, JOHN BERGER - -	661	4th March 1869	Improvements in substances used for the purification of illuminating gas, and in the recovery of a waste product arising therefrom.
SPENCE, JOHN BERGER - -	679	6th March 1869	Improvements in the production of substances to be used in the purification of illuminating gas, and in the recovery of a waste product arising therefrom.
SPENCE, JOHN BERGER - -	1100	10th April 1869	Treatment of cast iron for its conversion into malleable iron or steel.
SPENCE, JOHN BERGER - -	2771	23rd Sept. 1869	Manufacture of disinfectants, applicable also to the preservation of manures.
SPENCE, JOHN BERGER - -	2774	23rd Sept. 1869	Improvements in feeding steam-boiler and other furnaces with fuel, and in machinery or apparatus connected therewith.
SPENCE, JOHN BERGER - -	3525	6th Dec. 1869	Manufacture of alum.
SPENCE, JOHN BERGER - -	3526	6th Dec. 1869	Production of a substance to be used in the manufacture of paper in a similar manner to alum or sulphate of alumina, which substance is also applicable as a mordant in calico printing, and to other manufacturing purposes in which alum or sulphate of alumina is employed.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SPENCE, PETER - - -	130	15th Jan. 1869	Production of sulphate of potash for the manufacture of alum.
SPENCE, PETER - - -	2608	4th Sept. 1869	Separation of copper from ores.
SPENCE, WILLIAM - - -	1328	30th April 1869	Improvements in the manufacture of felt and in machines for the purpose. (Communicated by Louis Bruno Fortin.)
SPENCE, WILLIAM - - -	1915	23rd June 1869	Improvements in the method of extracting the juices of beetroot, applicable to the manufacture of sugar and to distilling purposes, and in apparatus for the purpose. (Communicated by Auguste Collette.)
SPENCE, WILLIAM - - -	3472	1st Dec. 1869	Manufacture of soda crystals. (Communicated by Messieurs Perret Brothers and Olivier.)
SPENCER, CHARLES LOWREY -	707	9th March 1869	Improved apparatus for converting a reciprocating motion into a rotary motion. (Patented by William Robert Lake.)
SPENCER, GEORGE - - -	727	9th March 1869	Preserving animal substances, fruits and other substances made from corn, grain or other vegetable matter.
SPENCER, GEORGE - - -	738	10th March 1869	Improvements in preserving corn and other grain, beans and seeds, malt, biscuit, flour and other substances made from the same, and animal and vegetable substances.
SPENCER, GEORGE - - -	3708	22nd Dec. 1869	Improvements in feeding-bottles and in the stoppers and fittings thereof, part of which improvements are also applicable to other purposes.
SPENCER, GEORGE - - -	3752	28th Dec. 1869	Improvements in the construction and conformation of certain machinery and apparatus and processes for the preservation of animal and vegetable substances, parts of which may be applied to other useful purposes.
SPENCER, HOWARD - - -	3776	30th Dec. 1869	Manufacture of iron and steel. (Patented by John Henry Johnson.)
SPENCER, JAMES - - -	2555	28th Aug. 1869	Certain improvements in portable drilling machinery, parts of which are applicable to machines for other purposes.
SPENCER, JOSEPH HENRY -	3145	29th Oct. 1869	A new or improved compound for lubricating the journals or necks and bearings of rolls, rotating shafts and other rotating bodies.
SPENCER, WILLIAM HENRY -	3477	1st Dec. 1869	Preparing, treating and curing sponge to render it elastic and suitable for use as a stuffing for beds, cushions, seats and other similar articles. (Patented by James Theodore Griffin.)
SPICE, ROBERT - - -	3174	2nd Nov. 1869	Manufacture of artificial stone, and for forcing liquids into porous substances. (Communicated by Arthur Pye-Smith.)
SPILL, DANIEL - - -	3102	26th Oct. 1869	Preparation and use of solvents of xyloidine so as to render the same more suitable for industrial applications.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SPÆTTNAGEL, FRITZ - -	672	5th March 1869	A new and improved apparatus for fastening the knots of neckties and other analogous articles. (Patented by Henri Adrien Bonneville.)
SPONG, CHARLES WINGROVE -	82	11th Jan. 1869	Construction and operation of certain parts of railway and other carriages.
SPONT, AUGUSTIN - - -	51	7th Jan. 1869	Preparation of concentrated food tablets or cakes. (Patented by John Henry Johnson.)
SPOONER, CHARLES EASTON -	1487	14th May 1869	Construction of railways.
SPOONER, CHARLES EANTON -	2896	5th Oct. 1869	Improved machinery for bending rails or bars for railways or other purposes.
SPOONER, DAVID - - -	190	20th Jan. 1869	An improvement in the construction of mills for cleaning rice or other grain.
SPURRIER, WILLIAM - -	265	28th Jan. 1869	An improvement in salt spoons and other spoons.
SQUIRES, JOHN ABRAHAM -	244	26th Jan. 1869	Machinery for cutting veneers. (Patented by Alfred Vincent Newton.)
SRIGLEY, WILLIAM - -	3302	16th Nov. 1869	A new or improved friction engine for producing motive-power.
STACEY, EDWIN - - -	870	22nd March 1869	An improved method of and apparatus for purifying gas.
STACKPOLE, GREENLEAF -	31	5th Jan. 1869	Improvements in sewing-machines, applicable to other machines worked by foot power. (Patented by John Henry Johnson.)
STAINS, VICTOR DE - -	1463	13th May 1869	Wheels, treadles and brakes principally applicable to bicycles and other light carriages.
STAINTON, MATTHEW - -	3611	14th Dec. 1869	Furnace bars and furnaces.
STANFORD, EDWARD CHARLES [CORTIS.]	1103	10th April 1869	Applying, treating and utilising materials for deodorising solid, liquid and gaseous matters.
STANIAR, JOHN - - -	2375	9th Aug. 1869	An improved arrangement of mechanism or apparatus to be employed for the purpose of "dressing" or distributing the different qualities of ground or pulverized grain into compartments or chambers.
STANLEY, JOHN MARTIN -	2540	27th Aug. 1869	Improvements in the manufacture of iron and steel, and in furnaces and converting crucibles used in connection therewith.
STANLEY, JOHN MARTIN -	3206	5th Nov. 1869	Improvements in furnaces and crucibles for melting steel and other metals, and in furnaces for heating steel and iron.
STANSFELD, ALFRED - -	2194	20th July 1869	Apparatus for propelling on land and in water.
STANTON, JOHN - - -	3774	30th Dec. 1869	An improved rebounding safety gun lock.
STARR, HENRY - - -	816	17th March 1869	An improved safety hook for harness and other purposes. (Communicated by Austin Baldwin.)
STASSEN, JOHN ISACK - -	1065	8th April 1869	Construction of velocipedes.
STEEL, JAMES - - -	100	13th Jan. 1869	Sanitary arrangements to be substituted for waterclosets.
STEEL, JAMES - - -	122	15th Jan. 1869	Apparatus for washing or cleansing casks, vats or similar vessels.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
STEENSTRUP, CHRISTIAN COL- [LETT.	2687	14th Sept. 1869	Breech-loading and other ordnance.
STEIN, ANDREW - - -	2248	24th July 1869	Improvements in machinery for propelling carriages, part of which improvements are applicable to the transmission of power between shafts which are not parallel to one another.
STEINER, JULES NICOLAS -	2729	20th Sept. 1869	Improvements in the construction and the propulsion of velocipedes, part of which is also applicable to the working automatically of toys.
STEINMETZ, BERNARD - -	3506	3rd Dec. 1869	Fastenings and locks for bags and other like articles. (Patented by Josef Loebl and Samuel Loebl.)
STEINWAY, THEODORE - -	187	20th Jan. 1869	Metallic action frames for pianofortes. (Patented by Henri Adrien Bonneville.)
STELL, MICHAEL - - -	3547	8th Dec. 1869	Trap twisting frame or machinery for twisting or doubling worsted or other fibrous substances.
STEPHENS, ROBERT ERRETT -	1985	1st July 1869	Breech-loading fire-arms. (Patented by John Henry Johnson.)
STEPHENSON, HENRY PALFREY	2534	26th Aug. 1869	Lighting and extinguishing gas lamps.
STEPHENSON, REUBEN CAL- [VERT.	2937	9th Oct. 1869	Looms for weaving.
STEPHENSON, WILLIAM - -	1476	13th May 1869	Apparatus for facilitating the consumption of smoke in furnaces.
STERNE, LOUIS - - -	101	13th Jan. 1869	Manufacture of elastic rubbers.
STERNE, LOUIS - - -	3649	17th Dec. 1869	Improvements in buffers, also applicable to bearing and other springs.
STERNE, ROBERT - - -	1289	26th April 1869	Anchors.
STERRIKER, JOHN - - -	1032	5th April 1869	Pressing apparatus for expressing oils and other matters from seeds or other similar substances in which those matters are contained.
STEVEN, THOMAS - - -	1349	1st May 1869	Improvements in cooking ranges and other fire-places, and in apparatus for carrying and turning cooking spits, parts of the said apparatus being also applicable for turning ventilators and other appliances.
STEVENS, BENJAMIN FRANKLIN	2869	2nd Oct. 1869	An improved mode of covering, lighting and ventilating areas, vaults and similar underground spaces, applicable also as a foot way. (Communicated by Thaddeus Hyatt.)
STEVENS, BENJAMIN FRANKLIN	3549	8th Dec. 1869	Improvements in the working of glass and in forming sheets and other articles therefrom. (Communicated by Thaddeus Hyatt.)
STEVENS, EBENEZER - -	2239	23rd July 1869	Improvements in cooking, in the means and articles employed, suitable either for roasting, baking, toasting or broiling.
STEVENS, JOHN - - -	38	5th Jan. 1869	An improved machine for plaiting, tucking or folding and dividing linen and other textile fabrics.
STEVENSON, THOMAS - -	2968	12th Oct. 1869	Iron girders.
STEWART, JOHN - - -	2007	2nd July 1869	Pianofortes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
STEWART, ANDREW - -	1088	8th April 1869	Machinery for cutting metal tubes, pipes, cylinders, bars or similar articles, and for facing the ends or flanges thereof.
STEWART, CHARLES PATRICK	2641	8th Sept. 1869	Centre rail locomotives.
STEWART, DAVID - - -	2458	17th Aug. 1869	Improvements in the manufacture of iron and in the apparatus employed therein. (Patented by John Henry Johnson.)
STEWART, DUNCAN - -	2302	31st July 1869	Apparatus for concreting sugar-cane juice. (Communicated by James Kearney.)
STEWART, JOHN - - -	1716	3rd June 1869	Improvements in and additions to multi-tubulous and water sheet steam-boilers and their fire-boxes or furnaces, such improvements being applicable in part to surface condensers and refrigerators.
STIEHL, THEODOR - - -	3744	24th Dec. 1869	Apparatus for measuring the weight or volume of water or other fluid supplied to steam-boilers or other vessels, and the quantity of calorio transmitted to the same. (Patented by Nathaniel Grew.)
STILL, ALFRED HENRY - -	1931	24th June 1869	Manufacture of gas.
STILWELL, EDWIN RUTHVEN -	3737	24th Dec. 1869	Improved apparatus for and method of heating water and purifying the same for use in steam-boilers, and for other purposes for which pure water may be required. (Patented by William Edward Newton.)
STIRLING, ARCHIBALD POR- [TEOUS.	3490	2nd Dec. 1869	An improved spittoon specially applicable to railway carriages.
STOCK, WILLIAM KEATING -	2229	22nd July 1869	Certain improvements in looms for weaving.
STOCK, WILLIAM KEATING -	3623	15th Dec. 1869	Certain improvements in looms for weaving.
STOCKER, ALEXANDER RICH- [MOND.	329	3rd Feb. 1869	Caps or stoppers applicable to and the employment of them with feeding and other bottles.
STOCKER, ALEXANDER RICH- [MOND.	3647	17th Dec. 1869	Improvements in stoppers for infants' feeding and other bottles, and in the manufacture, construction, combination and employment of the whole or part of the articles to be used.
STOCKER, ALEXANDER SOUTH- [WOOD.	329	3rd Feb. 1869	Caps or stoppers applicable to and the employment of them with feeding and other bottles.
STOCKLEY, JOSEPH - -	236	26th Jan. 1869	Apparatus for grinding plate glass.
STOCKMAN, BENJAMIN PRYOR	432	11th Feb. 1869	Meters applicable to measuring water.
STONE, ROBERT - - -	2709	17th Sept. 1869	Construction of floors and roofs, applicable also to other structures.
STONE, WILLIAM HENRY -	2223	22nd July 1869	Arrangements and apparatus for taking, counting and recording votes by ballot.
STOOKE, CHARLES ROBERT -	2571	30th Aug. 1869	Improvements in safety cages for mine shafts, which improvements are also applicable to lifts for warehouses, hotels and for other places.
STORER, JOHN - - -	2311	31st July 1869	Direct-acting steam-engines. (Patented by William Robert Lake.)
STOREY, ISAAC - - -	1477	14th May 1869	Means for controlling the discharge of water from stand-pipes, drinking fountains and ball taps or valves.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
STOREY, JOHN HENRY - -	1097	10th April 1869	Apparatus for ascertaining and indicating the "duty" of steam-engines, modifications of the said apparatus being also applicable to other purposes.
STOREY, JOHN HENRY - -	1477	14th May 1869	Means for controlling the discharge of water from stand-pipes, drinking fountains and ball taps or valves.
STOTT, JOHN - - - -	1235	22nd April 1869	Certain improvements in carding-engines.
STOTT, ROBERT - - - -	1235	22nd April 1869	Certain improvements in carding-engines.
STOTT, SAMUEL - - - -	1235	22nd April 1869	Certain improvements in carding-engines.
STOTT, THOMAS - - - -	1235	22nd April 1869	Certain improvements in carding-engines.
STRANG, WILLIAM - - -	2778	24th Sept. 1869	Apparatus for preparing warps for the loom.
STRAUSS, LIONEL - - -	381	8th Feb. 1869	Method of and apparatus for preserving, improving and discharging beer and other beverages. (Communicated by Wilhelm Eichman.)
STRAUSS, LIONEL - - -	3252	11th Nov. 1869	Arrangements or apparatus for withdrawing beverages or other liquids from casks or other vessels, and for elevating the same.
STRINGFELLOW, JOHN - -	1983	1st July 1869	Improved apparatus for affording protection from bullets and other missiles.
STROH, JOHN MATTHIAS [AUGUSTUS.]	3028	18th Oct. 1869	Improvements on electro-magnetic clocks, parts of which improvements are applicable to mechanical clocks.
STRUBE, CHARLES LOUIS -	2388	10th Aug. 1869	A globular cylinder-manometer with double capillary lock.
STUART, CHARLES - - -	1805	11th June 1869	Apparatus for expanding the ends of boiler and other tubes, and also for plugging the same when required.
STUART, CHARLES - - -	1843	15th June 1869	Chain pulley blocks.
STUART, JAMES - - - -	410	10th Feb. 1869	The separation of wool, hair, silk and other animal fibres from vegetable fibres in materials composed of mixed fibres.
STUART, JAMES - - - -	2795	25th Sept. 1869	Improvements in the treatment of the ores of metals and their products, and in the manufacture of the oxides of the metals, and of the carbonates of the oxides of the metals, and of the metals themselves, also in the manufacture of soda and its carbonates, and of potass and its carbonates.
STUBBS, JOSEPH SHELDON -	1892	1st June 1869	Improvements in steam-engines and in stuffing boxes used therein and for other purposes.
STURGEON, JOHN - - - -	1660	29th May 1869	Machinery and apparatus employed in and connected with the getting of coal and other minerals.
STURGEON, THOMAS - - -	3398	24th Nov. 1869	Apparatus for forcing and drawing fluids and liquids.
STURTEVANT, BENJAMIN [FRANKLIN.]	402	9th Feb. 1869	An improved blower for furnaces.
STURTEVANT, BENJAMIN [FRANKLIN.]	940	29th March 1869	An improved blowing apparatus. (Patented by William Robert Lake.)
SUGDEN, ZACCHEUS - - -	3333	19th Nov. 1869	Wrought-iron boilers for hot-water apparatus.
SUGG, WILLIAM THOMAS -	831	18th March 1869	Improvements in gas-burners and in the method of constructing and manufacturing the same.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SULMAN, BENJAMIN - -	3055	20th Oct. 1869	An improved quadrantal-action lever stamping and cancelling press.
SUMMERLEIN, HERMANN -	563	23rd Feb. 1869	Applying trade marks, names and devices upon metallic capsules. (Patented by James Neilson and James Marshall.)
SUMMERS, WILLIAM - -	445	12th Feb. 1869	Packing cases for packing or storing bottles of mineral waters and other bottles.
SUMNER, WILLIAM - -	3726	24th Dec. 1869	Machinery for boring copper and its alloys for making cylinders, rollers and tubes.
SUMNER, WILLIAM - -	3727	24th Dec. 1869	Manufacture of cylinders, rollers and tubes of copper and its alloys.
SUNDERLAND, GREENWOOD -	2444	16th Aug. 1869	Machinery or apparatus for spinning and doubling or twisting worsted, silk or other fibrous substances.
SUPLEE, HANNAH G. - -	3092	25th Oct. 1869	Sewing-machine needles. (Patented by William Robert Lake.)
SUTER, JOHN ALEXANDER [FORBES.]	422	10th Feb. 1869	Improvements in the production of heat for heating the boilers of marine steam-engines, and in the furnaces and apparatus used for that purpose.
SUTER, JOHN ALEXANDER [FORBES.]	597	26th Feb. 1869	Improvements in furnaces and in the combustion of fuel for melting steel, and for other purposes where high temperatures are required.
SUTHERLAND, WILLIAM [SEDDON.]	2487	20th Aug. 1869	Welding or uniting plates, tubes and other forms of iron or steel, and in means or apparatus employed therein.
SUTTON, CHARLES - - -	3280	13th Nov. 1869	An improved means of and apparatus for ascertaining the presence of certain bodies which are concealed from view, and for discriminating between one body and another.
SUTTON, EDWIN - - -	2094	12th July 1869	Improvements applicable to speaking pipes.
SUTTON, WILLIAM ALLEN -	351	4th Feb. 1869	Traction railways. (Patented by William Edward Newton.)
SWAN, HENRY - - -	2821	28th Sept. 1869	Construction of millstones.
SWANN, JOHN RUSSELL - -	2808	27th Sept. 1869	Boiler tubes.
SWANSTON, CLEMENT TUDWAY	1156	14th April 1869	Enabling railway trucks and carriages to be drawn by horses or traction engines on common roads, so as to prevent the necessity of loading and unloading at railway stations.
SWEETSER, GEORGE ROWE -	3320	18th Nov. 1869	Machinery for working wood.
SWIFT, JOHN - - -	3532	7th Dec. 1869	Safety lamps to be used in coal mines and for other purposes.
SWIFT, RICHARD - - -	2741	21st Sept. 1869	Manufacture of iron kegs and other metal cases.
SWITHENBANK, JOHN WALKER	865	22nd March 1869	Shuttles.
SWITHENBANK, JOHN WALKER	2258	26th July 1869	Shuttles.
SWORD, DAVID - - -	653	4th March 1869	Improvements in supplying water to cattle trucks or wagons on railways, and in apparatus employed therefor.
SYDSEFF, THOMAS BUCHAN -	63	8th Jan. 1869	An improved ballot-voting apparatus.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
SYER, EDWARD MARVEN, the [younger.	1732	4th June 1869	Manufacture of sleepers to be employed for the permanent ways of railways and tramways, and for the foundation of palisades or railings.
SYKES, SIR FREDERICK - -	91	12th Jan. 1869	An improved mode of and apparatus for defending ships, forts and other vessels or structures against injury from projectiles.
SYKES, WILLIAM ROBERT -	1508	17th May 1869	Hand signal and other railway lamps.
SZERELMEY, NICHOLAS [CHARLES.	275	29th Jan. 1869	Improvements in making tarpauling in different colours, and in treating sail cloth and other fabrics to preserve them from rapid destruction by the sea air and other corroding influences.

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TAFT, JOHN - - - -	2995	14th Oct. 1869	Machinery for opening, cleaning and preparing cotton and other fibrous materials.
TAILBOUIS, EDOUARD - -	3121	28th Oct. 1869	Certain improvements in knitting machines. (Patented by Henry Bernoulli Barlow.)
TALL, JOSEPH - - - -	1372	4th May 1869	An improved method of and apparatus for bending, curving, straightening and flattening metallic sheets, plates or bands, and also round, flat, square, angular and other bars of iron or other metals.
TANDY, GEORGE GRAINGER -	1242	22nd April 1869	Improved apparatus for carburetting air or gas.
TANGYE, GEORGE - - - -	280	27th Jan. 1869	Letter copying presses.
TANGYE, JAMES - - - -	1846	15th June 1869	Governors or regulators for steam-engines or other motive-power engines.
TARBUCK, JOHN - - - -	2754	22nd Sept. 1869	Method of pumping water from shafts, pits or similar places, which method is also applicable for drawing gas from goaves in mines, and for ventilating pits or shafts in course of sinking.
TARDIF, BERTRAND HIPPOLYTE	1536	18th May 1869	Machines for manufacturing capsules for closing bottles, jars and other vessels. (Patented by William Robert Lake.)
TARGET, FELIX NAPOLEON -	3479	1st Dec. 1869	Waterclosets.
TASKER, LYMAN HALL - -	859	22nd March 1869	An improved hay-tedding machine. (Patented by William Robert Lake.)
TASKER, STEPHEN PASCHALL [MORRIS.	3456	29th Nov. 1869	Improvements in journal bearings for railway carriages, and in the means for lubricating the same. (Patented by William Robert Lake.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
TASKER, STEPHEN PASCHALL [MORRIS.]	3736	24th Dec. 1869	Manufacture of metal tubing. (Patented by William Robert Lake.)
TATE, JOHN - - - -	2291	29th July 1869	Machinery for scutching, breaking and preparing flax, hemp, jute and other fibrous substances, and for thrashing corn or grain.
TATHAM, AMOS - - -	1514	18th May 1869	Manufacture of barbed needles.
TATHAM, EDMUND - - -	1258	23rd April 1869	Construction of levers and of "nebs" or thread carriers for warp machines.
TATHAM, JOHN - - -	1718	3rd June 1869	Machinery for carding wool and other fibrous materials.
TATHAM, ROGER - - -	1718	3rd June 1869	Machinery for carding wool and other fibrous materials.
TATHAM, WILLIAM - - -	57	8th Jan. 1869	Machines for preparing to be spun cotton, wool and other fibrous substances, and for the production of a web to be converted into felt and wadding and for similar purposes.
TATHAM, WILLIAM - - -	1616	26th May 1869	Apparatus for doffing, conveying and collecting the sliver of the carding-engine, and a motion for stopping the feeding and delivering rollers simultaneously in carding-engines when the fleece is broken or partially so.
TATHAM, WILLIAM - - -	3496	3rd Dec. 1869	Improvements in machinery for opening and breaking hard waste rags of cotton, woollen, flax or silk, and for scutching and carding cotton, wool and other fibrous substances.
TATTON, SAMUEL - - -	3420	26th Nov. 1869	An improved manufacture of reels, bobbins and other similar articles.
TATTON, SAMUEL - - -	3421	26th Nov. 1869	An improved card for facilitating the withdrawal of single threads for sewing purposes.
TAVERNIER, EDWARD - - -	1763	7th June 1869	Improvements in apparatus for combing wool, cotton and other fibrous substances.
TAYLOR, ALFRED WALTER -	447	13th Feb. 1869	A new method of and apparatus for walking on a ceiling or other surfaces, applicable also to walking and performing in other positions.
TAYLOR EPHRAIM - - -	1531	18th May 1869	An improved method of and apparatus for washing, wringing, mangling, churning and agitating liquids.
TAYLOR, FENNER BALLOU -	937	29th March 1869	An improved numerical counting and recording machine.
TAYLOR, FRANCIS - - -	3129	28th Oct. 1869	Apparatus for receiving, drying and deodorising human excrement.
TAYLOR, FREDERICK - - -	3213	6th Nov. 1869	Sewing and embroidering machines.
TAYLOR, HENRY - - -	2514	24th Aug. 1869	Velocipedes.
TAYLOR, HOMER - - -	1152	14th April 1869	Apparatus for burning liquid hydrocarbons, applicable to the generation of steam and other heating purposes. (Patented by John Henry Johnson.)
TAYLOR, JAMES - - -	251	27th Jan. 1869	Improvements in machinery or apparatus for propelling ships, also partly applicable as hoisting tackle and for other purposes.
TAYLOR, JAMES - - -	360	5th Feb. 1869	Machinery or apparatus for raising, lowering and conveying bodies.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
TAYLOR, JOHN - - -	796	16th March 1869	Improvements in carding-engines of the class in which the doffing cylinder is divided into spaces, and a novel method of testing and utilizing the slivers from the same.
TAYLOR, JOHN - - -	1818	14th June 1869	A floating and sliding top for wells, tanks, cisterns or any other kind of vessel for keeping or holding water, fermented or unfermented, or any other kind of liquor.
TAYLOR, JOHN - - -	1929	24th June 1869	Improvements in carding-engines by which the doffer is divided into spaces such that the slivers are at will made of the same weight, and their width adjusted, to produce rovings or slubbings suitable for spinning cotton waste and similar substances.
TAYLOR, JOHN - - -	2339	4th Aug. 1869	An improved attachment or device for balancing toilet and other looking glasses.
TAYLOR, JOHN - - -	3349	20th Nov. 1869	Construction of furnaces.
TAYLOR, JOSEPH - - -	2815	28th Sept. 1869	Manufacture of brad awls.
TAYLOR, LAFAYETTE KAUFF- [MAN.]	3776	30th Dec. 1869	Manufacture of iron and steel. (Patented by John Henry Johnson.)
TAYLOR, RICHARD - - -	662	4th March 1869	Manufacture of printing rollers.
TAYLOR, SAMUEL - - -	293	30th Jan. 1869	Manufacture of spade and shovel moulds.
TAYLOR, THEODORE FRELING- [HUYSEN.]	2294	29th July 1869	Machinery for manufacturing metal tubes.
TAYLOR, THOMAS - - -	3138	29th Oct. 1869	Apparatus for singeing horses.
TAYLOR, WILLIAM HENRY -	457	15th Feb. 1869	An improved combined harness buckle and loop.
TAYSEN, PETER - - -	419	10th Feb. 1869	Manufacture of stearic and oleac acids. (Communicated by Johann Christian August Bock.)
TEAL, JAMES - - -	2886	5th Oct. 1869	Machinery to be employed for combing wool.
TEALE, JOHN HENRY - -	1052	7th April 1869	A new or improved apparatus to be employed in putting on or taking off boots or shoes.
TEALE, WILLIAM EDWARD -	3289	15th Nov. 1869	Certain improvements in mining lamps.
TEISSONNIÈRE, ADOLPHE -	3552	8th Dec. 1869	A new or improved mode of ornamenting figured muslin and gauze fabrics. (Patented by Alexander Melville Clark.)
TEISSONNIÈRE, ADOLPHE -	3725	23rd Dec. 1869	New or improved materials to be used as curtains and blinds, together with the means of ornamenting the same. (Patented by Alexander Melville Clark.)
TELLIER, CHARLES - - -	368	6th Feb. 1869	Improvements in the manufacture of ice and of the agents employed therein, and in the apparatus connected therewith. (Patented by Hector Auguste Dufrené.)
TELLIER, CHARLES - - -	1410	10th May 1869	Desiccating and preserving meat and other organic substances. (Patented by Hector Auguste Dufrené.)
TEMLETT, WILLIAM - - -	3352	20th Nov. 1869	Banjoes and certain other stringed instruments.
TEMPLAR, BENJAMIN - -	1966	30th June 1869	A combined apparatus for damping and cleaning slates, sharpening slate pencils and wiping pens.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
TEMPLE, EDWIN DANIEL -	1116	12th April 1869	Railway signals.
TEMPLE, EDWIN DANIEL -	2595	3rd Sept. 1869	Construction of telegraph, railway, signal, scaffold and other posts.
TENWICK, JOHN - - -	784	13th March 1869	Construction of annealing ovens and kilns.
TENWICK, JOHN - - -	2400	11th Aug. 1869	Lubricators.
TERRELL, FRANKLIN JACKSON	750	11th March 1869	Cases for holding cigars and other articles. (Patented by William Edward Newton.)
TESTER, JAMES - - -	3449	29th Nov. 1869	Machinery for cutting chaff and other similar vegetable substances.
TEYCHENNÉ, JEAN - - -	2545	27th Aug. 1869	Improvements in or additions to springs for mattresses, sofas, chairs and other articles of furniture.
THACKRAY, EMMANUEL - -	3034	18th Oct. 1869	Wool-combing machinery.
THAYER, JAMES - - -	2057	8th July 1869	Reaping and mowing machines. (Patented by John Gustavus Rollins.)
THAYER, JAMES - - -	2261	26th July 1869	Combined reaping and mowing machines. (Patented by John Gustavus Rollins.)
THICK, WILLIAM HENRY -	1176	16th April 1869	Fret cutting or sawing machines.
THIEME, LEONID ALBERT -	1481	12th May 1869	Improved machinery for expressing juices from organic matters. (Patented by Alfred Vincent Newton.)
THIEMONGE, JOSEPH ERNEST	1230	21st April 1869	Dressing or finishing fabrics. (Patented by Clinton Edgcumbe Brooman.)
THIRION, ANTOINE ROMAIN -	1714	3rd June 1869	Apparatus for generating steam and for heating and cooling fluids. (Patented by William Robert Lake.)
THIRION, CHARLES ALEX- [ANDRE.	404	9th Feb. 1869	Manufacture of paper. (Patented by John Henry Johnson.)
THODE, FREDERIC EDMUND -	2737	20th Sept. 1869	Improved machinery for the manufacture of tape trimmings. (Patented by William Edward Newton.)
THOMAS, CHARLES - - -	431	11th Feb. 1869	Improvements applicable to harvesters or reaping-machines. (Communicated by Elisha Foote.)
THOMAS, ENOCH - - -	915	25th March 1869	Machinery for pressing oil, tobacco, cotton and other materials. (Patented by William Robert Lake.)
THOMAS, EVAN - - -	3232	10th Nov. 1869	An improvement in the construction of miners' safety lamps.
THOMAS, EVAN, the elder -	1363	4th May 1869	A new or improved agricultural implement for forming the surface of the ground into complete ridges, and at the same time depositing manure and sowing seed therein.
THOMAS, EVAN, the younger -	1363	4th May 1869	A new or improved agricultural implement for forming the surface of the ground into complete ridges, and at the same time depositing manure and sowing seed therein.
THOMAS, FREDERICK SAMSON	69	9th Jan. 1869	Improvements in railway and locomotive carriages, and in machinery and apparatus connected therewith.
THOMAS, JOHN - - -	779	13th March 1869	Repeating fire-arms.
THOMAS, JOHN - - -	836	19th March 1869	Improvements in the manufacture of iron and steel, and in furnaces and apparatus employed therein.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
THOMAS, JOSEPH - - -	2967	12th Oct. 1869	Improvements in the fire place and grate of puddling furnaces, mill furnaces and other reverberatory and boiler grate furnaces.
THOMAS, JOSEPH DREW - -	156	18th Jan. 1869	An improved artificial bust.
THOMAS, ROBERT - - -	3728	24th Dec. 1869	A new or improved apparatus for propelling steam ships.
THOMAS, SAMUEL, the younger	1589	22nd May 1869	Envelopes or wrappers for needles.
THOMAS, TIMOTHY - - -	2183	19th July 1869	Mills for grinding and bruising or crushing corn or other grain.
THOMAS, WILLIAM - - -	146	16th Jan. 1869	Manufacture of boots and shoes.
THOMAS, WILLIAM - - -	607	27th Feb. 1869	An improvement in the construction of winding machinery or apparatus employed in mines, shafts, pits or lifts and inclined planes.
THOMAS, WILLIAM - - -	3390	24th Nov. 1869	Obtaining power.
THOMASSIN, LÉON STANISLAS	3494	2nd Dec. 1869	Improvements in the manufacture of sulphuric acid and in apparatus connected therewith.
THOMLINSON, JOHN - - -	781	13th March 1869	Improvements in the manufacture of paper and textile fabrics, and in the preparation of gypsum to be used in such and other manufactures.
THOMLINSON, JOHN - - -	3373	22nd Nov. 1869	Manufacture of cements.
THOMLINSON, WILLIAM - -	781	13th March 1869	Improvements in the manufacture of paper and textile fabrics, and in the preparation of gypsum to be used in such and other manufactures.
THOMPSON, HENRY GRAHAM -	16	2nd Jan. 1869	Apparatus for sewing or stitching together the numbers or separate parts of a volume, in the operation of book-binding. <i>(Patented by John Garrett Tongue.)</i>
THOMPSON, HENRY GRAHAM -	3598	13th Dec. 1869	Machinery or apparatus for sewing or stitching together the numbers or separate parts of a volume, in the operation of book-binding. <i>(Patented by John Garrett Tongue.)</i>
THOMPSON, JOHN - - -	1261	24th April 1869	A method of and apparatus for working machinery without fuel or labour.
THOMPSON, MOSES - - -	497	18th Feb. 1869	Looms for weaving.
THOMPSON, WILLIAM BRUCE -	703	8th March 1869	Improvements in finishing textile fabrics, and in the machinery or apparatus employed therefor.
THOMPSON, WILLIAM BRUCE -	2628	7th Sept. 1869	Auxiliary screw propellers.
THOMSON, DAVID - - -	1914	23rd June 1869	Improvements in steam rollers, also partly applicable to traction engines.
THOMSON, JAMES - - -	870	22nd March 1869	An improved method of and apparatus for purifying gas.
THOMSON, WILLIAM ROGERS -	3052	20th Oct. 1869	Improvements in locks, latches or bolts for fastening the doors of railway carriages, which improvements are also applicable to other purposes.
THORNDIKE, JOHN H. - - -	90	12th Jan. 1869	Water meters. <i>(Patented by Bristow Hunt.)</i>
THORNDIKE, JOHN HILL - -	2264	26th July 1869	Valves. <i>(Patented by Bristow Hunt.)</i>

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
THORNDIKE, JOHN HILL -	2350	6th Aug. 1869	A new or improved numbering register or apparatus. (Patented by Bristow Hunt.)
THORNTON, ALBERT, - -	3168	1st Nov. 1869	Carding-engines or machinery for carding wool or other fibrous substances.
THUMM, CHARLES FREDERICK	3048	19th Oct. 1869	Improvements in heating and in apparatus employed therein. (Patented by John Henry Johnson.)
THURSTON, PHILO - - -	3006	15th Oct. 1869	Chain cable stoppers. (Patented by William Robert Lake.)
TIBERGHIEU, CHARLES - -	2180	19th July 1869	Looms for weaving. (Patented by Bristow Hunt.)
TIBERGHIEU, JULES - -	2180	19th July 1869	Looms for weaving. (Patented by Bristow Hunt.)
TIBERGHIEU, LOUIS - -	2180	19th July 1869	Looms for weaving. (Patented by Bristow Hunt.)
TIDCOMBE, GEORGE, the [younger.	3026	18th Oct. 1869	Improvements in the manufacture of balls and mallets used in the game of croquet and other games, and in apparatus employed therein.
TIGHE, CHARLES - - -	687	5th March 1869	Improvements in studs or buttons and in the mode of securing them to gloves and other articles or garments.
TIJOU, WILLIAM - - -	127	15th Jan. 1869	Apparatus for facilitating the getting of coal, stone and other minerals.
TILDESLEY, MATTHEW - -	203	22nd Jan. 1869	An improvement or improvements in the manufacture of the annealing cans used in annealing sheet iron.
TILDESLEY, MATTHEW - -	869	22nd March 1869	Manufacture of door bolts and their staples.
TILDESLEY, MATTHEW - -	1588	22nd May 1869	Manufacture of sash pullies.
TILDESLEY, MATTHEW - -	2214	21st July 1869	Ties, clips or fastenings for connecting the bands employed in securing bales of cotton, wool and other products capable of being packed in a similar manner.
TILLEY, WILLIAM EVANS -	2268	26th July 1869	Coating or electro-plating iron, copper, brass, lead and other metals with tin.
TILSON, WILLIAM - - -	378	6th Feb. 1869	Improvements in jacquards and in reading machines connected therewith, and in the means or apparatus employed therein.
TIMMINS, JOSEPH - - -	1465	13th May 1869	A new or improved lever fastening for securely holding in a state of tension cords, cables, wire ropes, chains or the like.
TIPPING, WILLIAM - - -	2703	16th Sept. 1869	Apparatus for preventing or consuming smoke.
TISBURY, SAMUEL HENRY -	1506	17th May 1869	Apparatus for applying breaks on railways. (Patented by Clinton Edgcumbe Brooman.)
TISDALE, N. O. J. - - -	2416	12th Aug. 1869	Machinery for charging gas retorts. (Patented by William Robert Lake.)
TOBIN, THOMAS WILLIAM -	3503	3rd Dec. 1869	A new or improved electric telegraph apparatus.
TOIRAY, GUSTAVE - - -	2297	30th July 1869	Block calendars and other similar articles. (Patented by William Robert Lake.)

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AND APPLICANTS FOR PATENTS OF INVENTION.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
TOLSON, JAMES - - -	299	30th Jan. 1869	Improved means or apparatus for cleaning the cards of carding-engines or machines having cylinders or rollers clothed with cards used in the preparation of wool, cotton or other fibrous substances.
TOLSON, JAMES - - -	1392	6th May 1869	An improvement in or applicable to certain apparatus employed for cleaning the cards of carding-engines or machines having cylinders or rollers clothed with cards.
TOMLINSON, EDWARD - -	3635	16th Dec. 1869	Improvements in furnaces for preventing the formation of smoke or effecting its combustion.
TOMMASI, FERDINAND - -	1025	5th April 1869	Improvements in obtaining motive-power from flow of the sea and in machinery for applying the same.
TONGUE, JOHN GARRETT -	16	2nd Jan. 1869	Apparatus for sewing or stitching together the numbers or separate parts of a volume, in the operation of book-binding. (<i>Communicated by Henry Graham Thompson.</i>)
TONGUE, JOHN GARRETT -	1019	3rd April 1869	Parasols or umbrellas. (<i>Communicated by Achille Gruyer.</i>)
TONGUE, JOHN GARRETT -	1408	7th May 1869	Machinery or apparatus for the manufacture of envelopes. (<i>Communicated by David M'Connell Smyth.</i>)
TONGUE, JOHN GARRETT -	1569	21st May 1869	Machinery for cutting wood or other substances. (<i>Communicated by Felix Adolphe Dusarques de Colombier.</i>)
TONGUE, JOHN GARRETT -	1822	14th June 1869	Shuttles for weaving. (<i>Communicated by Heinrich Scharm.</i>)
TONGUE, JOHN GARRETT -	1872	18th June 1869	The production of novel and ornamental effects in the manufacture of various articles of glass applicable to various ornamental and other objects, and to lamp shades, globes, reflectors or other transparent or semi-transparent articles made of glass, and in means or apparatus employed for the above purpose. (<i>Communicated by Marie Pierre Chevillotte.</i>)
TONGUE, JOHN GARRETT -	2670	11th Sept. 1869	Machinery or apparatus for moulding articles in ceramic or plastic materials. (<i>Communicated by Pierre Paulin Faure.</i>)
TONGUE, JOHN GARRETT -	3598	13th Dec. 1869	Machinery or apparatus for sewing or stitching together the numbers or separate parts of a volume, in the operation of bookbinding. (<i>Communicated by Henry Graham Thompson and Reune Martin.</i>)
TONGUE, WILLIAM - - -	2256	24th July 1869	Improved means, apparatus and furnaces for generating steam with economy in fuel.
TONGUE, WILLIAM - - -	2356	7th Aug. 1869	Improved means, apparatus and machinery for generating elastic vapours and applying such vapours for producing motive-power.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
TOOTH, WILLIAM HENRY -	578	25th Feb. 1869	Improvements in the manufacture of bricks, tiles and other articles made from plastic or silicious materials, and in the machinery or apparatus employed for moulding and pressing the same, part of which improvements are also applicable for compressing peat or other substances for the manufacture of artificial fuel.
TOOTH, WILLIAM HENRY [(senior).	655	4th March 1869	Improvements in the construction of furnaces, specially in the form, arrangement and mode of actuating the grate bars, and also in the means for making the same self-acting and self-feeding.
TOOTH, WILLIAM HENRY [(junior).	655	4th March 1869	Improvements in the construction of furnaces, specially in the form, arrangement and mode of actuating the grate bars, and also in the means for making the same self-acting and self-feeding.
TOPHAM, CHARLES - -	1364	4th May 1869	Machines for mincing meat, vegetables and other similar substances requiring to be minutely divided.
TOPHAM, WILLIAM, the younger	1877	18th June 1869	Manufacture of the handles of kettles and other vessels and articles.
TOPPAN, CHARLES - -	1090	9th April 1869	Improvements in paper, woven fabrics and other porous substances, and in the treatment thereof whereby the same are rendered waterproof. (Patented by William Robert Lake.)
TORREY, CALVIN - - -	2204	21st July 1869	Marline spikes. (Patented by William Robert Lake.)
TORT, DAMIAN - - -	1594	24th May 1869	An improved reacting turbine-wheel. (Patented by Baldwin Fulford Weatherdon.)
TOUCHEVIEUX, CLAUDE - -	224	25th Jan. 1869	Improvements in hinges of earrings, applicable to certain other articles of jewelry.
TOWER, BEAUCHAMP - -	3172	1st Nov. 1869	Hot-air engines.
TOWNEND, ENOCH - - -	2843	30th Sept. 1869	A self-acting means or apparatus applicable to carriages, carts, waggons and other common road vehicles, whether with four or two wheels, for adjusting the load in ascending or descending a hill and applying a brake in descending.
TOWNSEND, JOSEPH - - -	600	26th Feb. 1869	Improvements in extracting and in refining oils and other products from mineral and other materials containing carbon and hydrogen, and in apparatus therefor.
TOWNSEND, JOSEPH - - -	637	2nd March 1869	Refining or purifying oils and fats.
TOWNSEND, JOSEPH - - -	1469	13th May 1869	Improvements in refining or treating oils and fats, and in apparatus therefor.
TOWNSEND, JULIUS AMASA -	3616	14th Dec. 1869	Rotary engines. (Patented by William Edward Newton.)
TOWNSEND, LUCIUS RUFUS -	3616	14th Dec. 1869	Rotary engines. (Patented by William Edward Newton.)
TRACY, HENRY - - -	3230	10th Nov. 1869	An improved stick or stem for umbrellas, parasols, whip and other handles.
TRACY, JOHN - - -	3230	10th Nov. 1869	An improved stick or stem for umbrellas, parasols, whip and other handles.
TRANTER, WILLIAM - - -	3557	9th Dec. 1869	Fire-arms.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
TRAPPES, FRANCIS - - -	2048	7th July 1869	Construction of velocipedes.
TRAVES, JOHN - - -	1889	19th June 1869	Velocipedes.
TRAVES, JOHN - - -	2652	9th Sept. 1869	Bearings of loose axles for velocipedes and other carriages.
TRENCH, FREDERIC - -	2769	23rd Sept. 1869	Horseshoes.
TRENOR, HENRY HUDSON -	2446	16th Aug. 1869	An automatic passenger register or apparatus for recording the number of individuals entering any place or vehicle or passing over such apparatus.
TRENT, JOSEPH - - -	3137	29th Oct. 1869	Coiled or volute springs. (Patented by William Robert Lake.)
TREVENA, WILLIAM CHARLES	2627	7th Sept. 1869	An improved wheel buddle for dressing or separating tin ores and ores of all metals, and ore which is held in suspension in water and earthy substances.
TREVOR, DAVID - - -	2193	20th July 1869	New or improved apparatus for facilitating the production of photographic pictures, as also in the mounts or cases and fittings for the same.
TREW, THOMAS VERNON - -	440	12th Feb. 1869	Screw propellers.
TRIBE, JAMES - - -	3293	15th Nov. 1869	Despatch boxes and other similar articles.
TRICOIRE, TONY - - -	1693	1st June 1869	Sewing-machines (Patented by Charles Forster Waldo.)
TRIGG, HADDON - - -	22	4th Jan. 1869	Production of white lead.
TRONCHON, ALFRED PIERRE -	2574	31st Aug. 1869	Construction of elastic seats.
TROTMAN, JOHN - - -	1804	25th May 1869	Fastenings for uniting the ends of machine driving bands or straps.
TROTTIER, JULES - - -	923	27th March 1869	A novel construction of box for holding matches and other articles. (Patented by William Edward Gedge.)
TROTTIER, JULES - - -	3288	15th Nov. 1869	A novel manufacture of box for matches and other objects. (Patented by William Edward Gedge.)
TUBBS, GEORGE - - -	3127	28th Oct. 1869	Improvements in turn buckles for cupboard and other doors, and in the mode of adjusting and fixing knobs or handles thereto, which improvements are also applicable to adjusting and fixing knobs or handles to lock spindles.
TUCKER, WALTER HENRY -	3300	16th Nov. 1869	Locks.
TUER, CHRISTOPHER - -	2326	3rd Aug. 1869	Machines for polishing threads.
TUNSTILL, THOMAS - - -	509	19th Feb. 1869	Looms for weaving.
TURNBULL, GEORGE VAIR -	1700	2nd June 1869	Manufacture or preparation of lubricants or softeners, and the application of the same to the treatment of hemp, jute, flax and other like fibrous materials.
TURNBULL, JAMES - - -	3397	24th Nov. 1869	Improvements in connecting and disconnecting carriages and wagons on railways, and in the apparatus connected therewith.
TURNBULL, JOHN - - -	3207	5th Nov. 1869	Improved cut-off gears for steam-engines.
TURNBULL, ROBERT - - -	701	8th March 1869	Improved means and apparatus for signalling from one part of a railway train to another, the same being adaptable to warning purposes and to signalling in ships or vessels, buildings and other places.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
TURNER, ARCHIBALD - -	1857	16th June 1869	Improved apparatus for cleansing and preparing rags for the manufacture of paper. (Patented by William Edward Newton.)
TURNER, ARCHIBALD - -	1989	1st July 1869	Utilizing waste strips of india-rubber.
TURNER, ARCHIBALD - -	2379	9th Aug. 1869	Improvements in utilizing waste strips of india rubber and in machinery for cutting sheet rubber into thread.
TURNER, CHARLES - -	1130	13th April 1869	Cowls for chimneys and shafts.
TURNER, GEORGE MOSCRIPT -	1857	16th June 1869	Improved apparatus for cleansing and preparing rags for the manufacture of paper. (Patented by William Edward Newton.)
TURNER, HENRY - - -	2320	3rd Aug. 1869	High and low pressure expansive condensing steam-engines for marine and other purposes.
TURNER, HENRY, the younger -	2000	2nd July 1869	Weaving plain and elastic terry fabrics.
TURNER, JAMES - - -	1857	16th June 1869	Improved apparatus for cleansing and preparing rags for the manufacture of paper. (Patented by William Edward Newton.)
TURNER, JAMES - - -	3594	13th Dec. 1869	Improved lubricators for steam-engines.
TURNER, JOHN - - -	3594	13th Dec. 1869	Improved lubricators for steam-engines.
TURNER, JOHN PEMBERTON -	2790	25th Sept. 1869	Buckles or fastenings for braces, belts, bands and other articles. (Communicated by Antoine Rollin.)
TURNER, MALCOLM CLARK -	1857	16th June 1869	Improved apparatus for cleansing and preparing rags for the manufacture of paper. (Patented by William Edward Newton.)
TURNER, REUBEN - - -	7	1st Jan. 1869	Bushing the bung holes of casks and other vessels.
TURNER, REUBEN DANIEL -	2746	21st Sept. 1869	An improvement in the treatment of spirits or alcoholic liquids for the purification of the same, and apparatus therefor, a part of which invention is also applicable to the separation of the lighter from the heavier particles of oils and other liquids. (Patented by Alfred Vincent Newton.)
TURNER, ROBERT - - -	1857	16th June 1869	Improved apparatus for cleansing and preparing rags for the manufacture of paper. (Patented by William Edward Newton.)
TURNER, ROBERT - - -	3712	23rd Dec. 1869	Machinery for preparing, twisting or spinning cotton and other fibrous materials.
TURNER, THOMAS CLARK -	1857	16th June 1869	Improved apparatus for cleansing and preparing rags for the manufacture of paper. (Patented by William Edward Newton.)
TURNER, WALTER JAMES -	2768	23rd Sept. 1869	Improvements in machinery or apparatus for the manufacture of bisulphites, and in the application of the same to bleaching and preparing for dyeing or printing textile fabrics and fibres.
TURNER, WILLIAM - - -	583	25th Feb. 1869	Friction rollers applicable to rolling bridges.
TURNER, WILLIAM - - -	1281	26th April 1869	Velocipedes.
TURNER, WILLIAM - - -	2086	10th July 1869	Cards for carding cotton, wool and other fibrous substances.
TURNER, WILLIAM HENRY -	1658	29th May 1869	Means for lessening the discharge of smoke from furnaces.
TURNOR, MICHAEL - - -	1967	30th June 1869	Manufacture of metallic and other boxes.
TURTON, SAMUEL - - -	1980	1st July 1869	Feeding bottles.
TUTHILL, MARCUS - - -	3246	11th Nov. 1869	Horse gear.

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AND APPLICANTS FOR PATENTS OF INVENTION.

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Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
TUTTE, EDWIN - - -	1339	30th April 1869	Construction of hollow walls.
TUTTLE, DAVID KITCHELL -	1539	19th May 1869	An improved process for obtaining gelatine and other products from animal substances. (Patented by William Robert Lake.)
TWIGGE, JOHN THOMAS - -	1780	9th June 1869	Velocipedes.
TYER, EDWARD - - -	2907	6th Oct. 1869	Electro-magnetic telegraphic apparatus for train signalling on railways, parts of which apparatus may be employed for other useful purposes.
TYLER, ALFRED - - -	43	6th Jan. 1869	Articles known as bon-bons or cossacks.
TYLER, HENRY BUTLER - -	3077	22nd Oct. 1869	Machines for manufacturing brushes. (Patented by Charles Edward Fuller.)
TYLER, PHILO SHELTON -	1017	3rd April 1869	Certain new and useful improvements in the construction of breech-loading fire-arms. (Patented by Francis Boyd.)
TYLOR, ALFRED - - -	2340	5th Aug. 1869	Apparatus for regulating, adjusting and comparing the standards of measures.
TYLOR, ALFRED - - -	2781	20th Sept. 1869	Improvements in water taps and cistern apparatus for preventing the waste of water and for cleanliness.
TYLOR, HENRY - - -	474	16th Feb. 1869	Spring bedsteads.
TYLOR, HENRY - - -	695	8th March 1869	Construction of spring bottoms for bedsteads, couches and seats.
TYLOR, HENRY - - -	1842	15th June 1869	Improvements in the construction of spring mattresses and in bedsteads.
TYRRELL, JAMES HIGGS -	328	3rd Feb. 1869	An improved method of measuring and drawing off any given quantity of liquid from a vat or other vessel containing it in bulk, and in registering the quantity so drawn off or abstracted from time to time.
U.			
UHRY, HYPOLITE - - -	3215	6th Nov. 1869	An improved mode of and devices for securing stair rods. (Patented by William Robert Lake.)
UNDERHILL, WILLIAM SCOTT	1819	14th June 1869	Reaping and mowing machines.
UNGER, CARL MAX - - -	2910	6th Oct. 1869	Permanent way of railways and tramways. (Patented by William Edward Newton.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
UPWARD, ALFRED - - -	3756	28th Dec. 1869	Improvements in the manufacture and purification of gas, and in the utilization of waste and bye-products of gas works.
URBAIN, JOSEPH - - -	1698	2nd June 1869	Improvements in the manufacture of wax and other like candles and in apparatus therefor.

V.

VAIL, NATHAN RANDOLPH -	3130	28th Oct. 1869	Axles for rail and tramway carriages and vehicles. (Communicated by James Milton Requa.)
VALE, JOSEPH - - -	1040	6th April 1869	An improved construction of baking oven. (Patented by Alfred Vincent Newton.)
VALLÉE, HIPPOLYTE LOUIS -	39	6th Jan. 1869	Manufacture of artificial flowers and foliage from vegetable parchment.
VALORY, HENRI GUIBERT DE	1661	29th May 1869	A novel liquefiable compound substance to be used for extinguishing fires.
VALTERS, JAMES - - -	2519	24th Aug. 1869	An improved agent for fining and clarifying ale and other fermented liquors.
VAN ALSTINE, CORNELIUS [CHARLES EDGAR.	656	4th March 1869	An improved process for casting chain. (Patented by Edward Thomas Hughes.)
VAN CHOATE, SYLVANUS [FREDERICK.	1093	10th April 1869	Certain improvements in fire-arms.
VAN ROYEN, JAN BAREND [HENDRIK.	690	8th March 1869	An improved apparatus for raising water. (Patented by William Armand Gilbee.)
VAN VOLXEM, ALFRED - -	1704	2nd June 1869	An improved apparatus for working the signals and switches or points of railways.
VAN WINKLE, ABRAHAM -	1535	18th May 1869	An improved device for securing corks in bottles. (Communicated by William M. Littell.)
VANDEMARK, ARCHIBALD [BURNETT.	3250	11th Nov. 1869	Combination-locks. (Patented by William Robert Lake.)
VANDEVINNE, FLORENT JO- [SEPH.	437	12th Feb. 1869	Apparatus for working ploughs for clearing or grubbing up uncultivated land.
VANDERSTICKEL, EDOUARD -	2180	19th July 1869	Looms for weaving. (Patented by Bristow Hunt.)
VANDERSTICKEL, GÉRARD -	2180	19th July 1869	Looms for weaving. (Patented by Bristow Hunt.)
VANNIER, CHARLES - -	2098	12th July 1869	Apparatus for cleansing grain, more particularly applicable to flour mills. (Patented by Charles Denton Abel.)
VANONI, JEAN BAPTISTE -	1684	31st May 1869	Stoves for culinary purposes. (Patented by John Henry Johnson.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
VANSITTART, HENRIETTA -	867	22nd March 1869	Construction of screw propellers.
VARLET-MARÉE, LOUIS JULIEN	2533	26th Aug. 1869	Means and apparatus for separating or dividing the carded fleece into slivers in carding-machines for all kinds of filaments. (Patented by Charles Denton Abel.)
VARLEY, FREDERICK HENRY -	2525	25th Aug. 1869	Improvements in instruments for transmitting and recording electric signals, part of the invention being applicable to other purposes.
VARLEY, JAMES - - -	1749	5th June 1869	Machinery to be used in the treatment of wool, flax, silk and other fibrous materials.
VARLEY, OCTAVIUS - -	2525	25th Aug. 1869	Improvements in instruments for transmitting and recording electric signals, part of the invention being applicable to other purposes.
VARLEY, SAM WARBURTON -	1749	5th June 1869	Machinery to be used in the treatment of wool, flax, silk and other fibrous materials.
VARLEY, SAMUEL ALFRED -	2728	20th Sept. 1869	Improvements in electric telegraphs and in apparatus employed in their construction, parts of which improvements are applicable to other purposes.
VARY, MANUEL - - -	505	18th Feb. 1869	Ornamenting surfaces.
VAUDERAAY, FERDINAND -	331	3rd Feb. 1869	Apparatus for the manufacture of bricks and other articles moulded or formed from clays and other plastic material.
VAUGHAN, EDWARD PRIME- [ROSE HOWARD.]	3745	27th Dec. 1869	Manufacture of fluoride of potassium and sodium, and of hydrate and carbonate of potash and soda. (Communicated by Carl Friedrich Claus.)
VAUGHAN, JOHN IVES - -	574	24th Feb. 1869	Treating, converting and utilizing the metallic salts and sulphuric acid contained in or derived from the residual or waste liquors of tinned plate works and petroleum and paraffin refineries.
VAUGHAN, THOMAS - -	252	27th Jan. 1869	Treating smoke and soot for the preparation of an article of commerce therefrom.
VAUGHAN, THOMAS - -	1615	26th May 1869	A new or improved machine for nutting screw bolts.
VAVASSEUR, HENRY - -	113	14th Jan. 1869	Improvements in the permanent way of railways, which improvements are also applicable for works where wedges are used. (Communicated by William Judson Addis and James Walker Robertson.)
VAVASSEUR, JOSIAH - -	348	4th Feb. 1869	Apparatus for working heavy guns or ordnance.
VAVIN, CHARLES - - -	3538	7th Dec. 1869	An improved apparatus for separating metals and magnetic substances from other bodies.
VENTRESS, ROBERT - -	3122	28th Oct. 1869	Improvements in saws and in apparatus or machinery connected therewith.
VERNIER, L. - - -	1168	15th April 1869	Compasses and pen and pencil cases or holders. (Patented by Alexander Melville Clark.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
VERO, CHARLES - - -	780	13th March 1869	Machinery for hardening and felting the bodies of hats and other coverings for the head.
VICKERS, ALBERT - - -	1447	11th May 1869	Connecting and sustaining the rails of railways. (Communicated by Samuel J. Reeves.)
VIDAL, ANTOINETTE - -	713	9th March 1869	A new sort of porcelain and a new and improved process for manufacturing the same. (Patented by Henri Adrien Bonneville.)
VILLEPIGUE, FERDINAND [FLORAN.	708	9th March 1869	Construction of velocipedes.
VILLEPIGUE, FERDINAND [FLORAN.	1035	6th April 1869	An improved method of and apparatus for piercing or boring holes in rock, mineral or other material of a similar nature, applicable in tunnel, mine, quarry and other such work.
VILLEPIGUE, FERDINAND [FLORAN.	2878	4th Oct. 1869	An improved method of and apparatus for piercing or boring holes in rock, mineral or other material of a similar nature, applicable in tunnel, mine, quarry and other such work.
VINCENZI, EUGÈNE - -	3658	17th Dec. 1869	Jacquard apparatus. (Patented by Alexander Melville Clark.)
VINOT, LÉON DOMINIQUE -	521	19th Feb. 1869	An improved mode of and apparatus for making and preserving ice for cooling liquids and for preserving the same and other substances. (Patented by William Robert Lake.)
VIOLET, HENRY HILAIRE -	3304	16th Nov. 1869	Adherent stoppers applicable to every species of bottle.
VIVIAN, JAMES - - -	1167	15th April 1869	Improvements in engines, pumps and machinery to be used in mining, partly applicable to other purposes.
VIVIER, OCTAVE - - -	1105	10th April 1869	Escapements for watches and other time pieces.
VIVIER, OCTAVE - - -	2541	27th Aug. 1869	Means or apparatus for measuring and indicating the distance travelled by vehicles.
VOCE, EDWARD WILLIAM -	27	5th Jan. 1869	Construction of rotary fans.
VOCE, JOHN - - -	27	5th Jan. 1869	Construction of rotary fans.
VOICE, NICHOLAS - - -	154	18th Jan. 1869	Apparatus connected with closets and urinals.
VOICE, NICHOLAS - - -	314	2nd Feb. 1869	Apparatus for regulating the flow of water or other fluids, applicable to water closets and other purposes.
VOICE, NICHOLAS - - -	928	27th March 1869	Improvements in or connected with green-houses and other buildings, part of which is applicable to stretching wires in other situations for training plants or trees.
VOICE, NICHOLAS - - -	1309	28th April 1869	Cask stands or tilts.
VOIGT, EMILE - - -	2205	21st July 1869	A new or improved mode of spinning carded wool on small cops ready for weaving. (Patented by William Brookes.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
VOLKMAN, FREDERICH - -	23	5th Jan. 1869	A new and improved process for coating all sorts of articles with gold, silver and other metals or mixtures of such metals as may be beaten into thin sheets or coatings. (Patented by Henri Adrien Bonneville.)
VOLXEM, ALFRED VAN - -	1704	2nd June 1869	An improved apparatus for working the signals and switches or points of railways.
VON LIEBIG, BARON JUSTUS -	98	13th Jan. 1869	Salting and preserving meat. (Patented by Charles John Günther.)
W.			
WADDIE, CHARLES MAULE -	2710	17th Sept. 1869	An improved construction of printing press.
WADDINGTON, ANDREW - -	746	11th March 1869	A new or improved method of and apparatus or machinery for condensing and utilizing steam or other vapors arising from the boiling of liquids, wort and other ingredients in breweries, distilleries and other places.
WADDINGTON, JAMES, junior -	746	11th March 1869	A new or improved method of and apparatus or machinery for condensing and utilizing steam or other vapors arising from the boiling of liquids, wort and other ingredients in breweries, distilleries and other places.
WADE, CHARLES MARTIN -	113	14th Jan. 1869	Improvements in the permanent way of railways, which improvements are also applicable for works where wedges are used. (Communicated by William Judson Addis and James Walker Robertson.)
WADE, JOSEPH ARMYTAGE -	499	18th Feb. 1869	An improved machine for pressing bricks, tiles or other similar articles.
WADMAN, GEORGE - - -	3320	18th Nov. 1869	Machinery for working wood.
WADSWORTH, JAMES - -	1111	10th April 1869	Improvements in lighting fires and economising fuel and in apparatus therefor.
WAHLFELDT, FREDERIC DE -	3171	1st Nov. 1869	Guns for bayonet drill. (Patented by Peter Jensen.)
WAINWRIGHT, HOWARD - -	2928	8th Oct. 1869	Improved apparatus for distilling and producing fresh potable water.
WAITE, WILLIAM THURSTON -	62	8th Jan. 1869	Treatment of saccharine matters.
WAKEFIELD, JOHN - - -	3114	27th Oct. 1869	Improvements in the manufacture of carriage and other bolts and pins, and tyre bolts and tyre and other rivets, and in machinery to be employed in the said manufacture.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WALDENSTRÖM, ERIC HUGO -	3726	24th Dec. 1869	Machinery for boring copper and its alloys for making cylinders, rollers and tubes.
WALDENSTRÖM, ERIC HUGO -	3727	24th Dec. 1869	Manufacture of cylinders, rollers and tubes of copper and its alloys.
WALDHAUER, DAVID - -	3518	4th Dec. 1869	Harness for draught animals. (Patented by William Robert Lake.)
WALDO, CHARLES FORSTER -	1693	1st June 1869	Sewing-machines. (Communicated by Tony Tricoire.)
WALKER, ALEXANDER - -	1977	1st July 1869	Agricultural implements.
WALKER, ANDREW - -	3216	8th Nov. 1869	An improved gas meter.
WALKER, ANDREW BARCLAY -	632	18th March 1869	Apparatus for producing and for applying heated air to various useful purposes.
WALKER, ARCHIBALD INGLIS	2777	24th Sept. 1869	An improved automatic railway carriage or car brake. (Patented by Bristow Hunt.)
WALKER, BENJAMIN - -	378	6th Feb. 1869	Improvements in jacquards and in reading machines connected therewith, and in the means or apparatus employed therein.
WALKER, BERNARD PEARD -	582	25th Feb. 1869	Improvements in shaping and finishing metallic and other articles by abrasion, and in the machinery or apparatus employed therein.
WALKER, EDMUND - -	1905	22nd June 1869	Construction of windlasses.
WALKER, EDWIN - -	2801	27th Sept. 1869	Locomotive and other engines and their steam-boilers.
WALKER, EDWIN - -	3554	9th Dec. 1869	Gas-burners.
WALKER, JAMES - -	3008	15th Oct. 1869	Apparatus for measuring fluids.
WALKER, JOHN - -	2075	10th July 1869	The manufacture of new or improved dyes or colouring matter from materials not hitherto used for such purposes.
WALKER, JOHN CRAWFORD -	3721	23rd Dec. 1869	An improved mode of constructing and heating cooking and laundry stoves.
WALKER, JOSEPH - -	3513	4th Dec. 1869	Improved material to be employed in the manufacture of blankets known as "washing blankets," as used by calico printers, and for other purposes requiring a waterproof material having an absorbent surface.
WALKER, PETER - -	3091	25th Oct. 1869	Improved methods of and apparatus for rendering coal mines less injurious to those employed therein.
WALKER, PETER - -	3216	8th Nov. 1869	An improved gas meter.
WALKER, ROBERT CULTON -	915	25th March 1869	Machinery for pressing oil, tobacco, cotton and other materials. (Patented by William Robert Lake.)
WALKER, ROBERT LOUDON -	2329	3rd Aug. 1869	A new and useful improvement in mechanism for spinning wool or other fibrous matters. (Patented by John Bapty and Andrew Hall.)
WALKER, SAMUEL - -	3741	24th Dec. 1869	Steam pumping engines.
WALKER, THOMAS - -	2643	8th Sept. 1869	Electro-telegraphy.
WALKER, WILLIAM - -	729	9th March 1869	Expansion slide valve gear for steam and other motive-power engines.
WALKER, WILLIAM - -	1805	11th June 1869	Apparatus for expanding the ends of boiler and other tubes, and also for plugging the same when required.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WALKER, WILLIAM - -	2032	6th July 1869	Motive-power engines, rotary pumps and fans.
WALKER, WILLIAM - -	2830	29th Sept. 1869	Certain improvements in furnaces for steam-boilers and other purposes.
WALL, CHARLES - - -	3131	28th Oct. 1869	Drawing frames. (Patented by William Edward Newton.)
WALLACE, JOSEPH - - -	2830	8th Oct. 1869	An improved method of and apparatus for distilling alcoholic liquors.
WALLACE, ROBERT CRAWFORD	2763	23rd Sept. 1869	Pumps and mechanism connected therewith applicable to ships and other purposes.
WALLEND AHL, RASMUS CARO- [LIUS HANSEN.	2061	8th July 1869	Machinery for the manufacture of fish hooks. (Communicated by Ole Ruskeland.)
WALLER, THOMAS DAVID -	2079	10th July 1869	A new and improved self-acting measuring and tilting cask-stand.
WALLIS, JOHN S. - - -	2863	2nd Oct. 1869	A new or improved buckle or tie for fastening hoops or bands of metal around bales of cotton and for other like purposes. (Patented by Arthur Keen.)
WALLS, JOSEPH - - -	824	18th March 1869	Improvements in mechanism or apparatus for regulating the admission of air to steam-boiler and other furnaces arranged for consuming smoke and economizing fuel.
WALLWORK, HANDEL - -	799	16th March 1869	Improvements in the construction of "saddles" and hangers, and top and bottom bearings for shafting and rollers used in connection with machinery for preparing and spinning cotton and other fibrous substances.
WALLWORK, ISAIAH - -	799	16th March 1869	Improvements in the construction of "saddles" and hangers, and top and bottom bearings for shafting and rollers used in connection with machinery for preparing and spinning cotton and other fibrous substances.
WALSH, JOSEPH - - -	2230	22nd July 1869	Improvements applicable to hoods for invalid, perambulator and other vehicles.
WALTER, KONRAD - - -	42	6th Jan. 1869	Manufacture of sulphuric acid.
WALTERS, BENJAMIN - -	2938	9th Oct. 1869	Ornamenting bricks, building-blocks and roofing and other tiles.
WALTHAM, EDWARD - -	1345	1st May 1869	Engines to run on common roads.
WALTHAM, THOMAS - -	1345	1st May 1869	Engines to run on common roads.
WALTON, FREDERICK - -	198	21st Jan. 1869	Manufacture of artificial marble.
WALTON, FREDERICK - -	477	16th Feb. 1869	Manufacture of artificial leather.
WALTON, FREDERICK - -	1521	18th May 1869	Coal vases.
WALTON, FREDERICK - -	2043	7th July 1869	Scrapers for removing mud from boots and shoes whilst in wear.
WALWORTH, JAMES - -	2802	27th Sept. 1869	Looms for weaving.
WANOSTROCHT, VINCENT -	1880	18th June 1869	Pushing jacks or apparatus to facilitate moving railway carriages. (Communicated by Ezra Hutson.)
WAPLINGTON, WILLIAM -	139	16th Jan. 1869	Improvements in the manufacture of iron and steel, and in the apparatus connected therewith.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WAPPENSTEIN, RUDOLPH -	1365	4th May 1869	An improved system and apparatus for registering the numbers of passengers travelling in or on omnibuses and other conveyances, or entering public gardens and buildings.
WARBURTON, EDWARD COOPER	1526	18th May 1869	Apparatus for registering secret votes.
WARD, HUGH M'ENTEE - -	1635	27th May 1869	Machinery for spinning or twisting flax or other fibrous substances.
WARD, JOSEPH EDWIN - -	1198	19th April 1869	Improvements in hats or coverings for the head, and in the construction or manufacture of the same.
WARD, ROBERT - - -	1338	30th April 1869	An improved oven or apparatus for baking, heating or drying.
WARD, THOMAS - - -	2438	16th Aug. 1869	Machinery for twisting tobacco.
WARD, WILLIAM MONDER -	3603	13th Dec. 1869	Net machines. (Patented by Henry Edward Newton.)
WARDLAW, THOMAS - -	2579	31st Aug. 1869	Reaping-machines.
WARHURST, JOSEPH - -	1690	1st June 1869	Improved apparatus for closing the aperture or opening at the bottom of hinged doors, shutters and windows for excluding draughts, dust or rain.
WARING, JOHN THOMAS -	874	22nd March 1869	Machinery for felting felt cloths. (Patented by George Tomlinson Bousfield.)
WARMAN, JOHN WATSON -	1064	8th April 1869	Organs.
WARNER, EDWARD CHARLES -	2769	23rd Sept. 1869	Horseshoes.
WARREN, WILLIAM - -	2225	22nd July 1869	Ship's anchors.
WARREN, ZENAS CRANE -	1033	6th April 1869	Improvements in the manufacture of paper and in sizing therefor. (Patented by George Tomlinson Bousfield.)
WARREN, ZENAS CRANE -	2807	27th Sept. 1869	Manufacture of sized paper. (Patented by George Tomlinson Bousfield.)
WARRINGTON, THOMAS [ALFRED.	78	11th Jan. 1869	Clips for the attachment of window-blinds to their rollers.
WARRINGTON, THOMAS [ALFRED.	135	16th Jan. 1869	Certain improvements in the construction of spoons.
WARTH, ALBIN - - -	1096	10th April 1869	Certain improvements in sewing-machines and their shuttles, and in attachments to sewing-machines for sewing different seams and fancy stitches. (Patented by Henri Adrien Bonneville.)
WARTSKI, BARNARD - -	1847	15th June 1869	Manufacture of waterproof overcoats and other garments.
WASHBURN, NATHAN - -	2997	14th Oct. 1869	Improvements in the manufacture of railway carriage wheels, applicable also to the manufacture of other analogous articles. (Communicated by Zadock Washburn.)
WASHBURN, ZADOCK - -	2997	14th Oct. 1869	Improvements in the manufacture of railway carriage wheels, applicable also to the manufacture of other analogous articles. (Patented by Nathan Washburn.)
WATERLOW, WALTER BLAND-FORD.	674	5th March 1869	A new or improved stamping or dating press.
WATERWORTH, JAMES - -	1518	18th May 1869	An improvement in fire-grates suitable for stoves, domestic and other fires.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WATSON, ALFRED - - -	1282	26th April 1869	Sleeve links, suitcases, glove fasteners and other similar articles or fasteners.
WATSON, CALEB DAVID -	2398	10th Aug. 1869	Improvements in waterproofing fabrics and in the manufacture of compositions suitable for this purpose. (Communicated by <i>Angelo Loni</i> .)
WATSON, HENRY - - -	3595	13th Dec. 1869	Improved means or machinery for smoothing, marking and oiling bobbins.
WATSON, JAMES - - -	2472	18th Aug. 1869	Presses for compressing cotton, jute and other materials.
WATSON, JAMES - - -	3123	28th Oct. 1869	Presses for compressing cotton, jute and other materials.
WATSON, JAMES - - -	3537	7th Dec. 1869	Electric telegraph apparatus for continuous printing.
WATSON, JOHN - - -	117	14th Jan. 1869	Presses for expressing oils and other liquids.
WATSON, JOHN - - -	208	22nd Jan. 1869	Mode of and apparatus for producing and applying motive-power, also applicable for measuring the flow of gas and other fluids.
WATSON, JOHN - - -	2764	23rd Sept. 1869	Tyres for wheels.
WATSON, KENNETH CAMPBELL	295	30th Jan. 1869	An improved method of righting boats when they are upset at sea.
WATSON, RICHARD - - -	109	14th Jan. 1869	Certain improvements in keyless and stop work employed in chronographs and other similar timekeepers, for the measurement of fractional portions of time.
WATSON, WILLIAM RENNY -	3161	1st Nov. 1869	Machinery for doubling yarns or threads.
WATT, ALEXANDER - - -	1699	2nd June 1869	Improvements in the manufacture of printing surfaces, parts of which improvements are also applicable to the securing of metals to the surfaces upon which they have been deposited from solutions.
WATTERU, EMILE - - -	1615	26th May 1869	A new or improved machine for nutting screw bolts.
WATTS, CHARLES - - -	2301	31st July 1869	Improved means or apparatus for indicating stations to passengers by rail or tramways.
WATTS, THOMAS - - -	2301	31st July 1869	Improved means or apparatus for indicating stations to passengers by rail or tramways.
WAY, JOHN THOMAS - - -	2139	15th July 1869	Manufacture of hydrochloric acid.
WAY, JOHN THOMAS - - -	2327	3rd Aug. 1869	Improvements in the manufacture of manures and in the purification of gas.
WAY, JOHN THOMAS - - -	2328	3rd Aug. 1869	Improvements in the manufacture of soap and in cleaning wool and woollen goods.
WEATHERDON, BALDWIN FUL- [FORD.	1594	24th May 1869	An improved reacting turbine-wheel. (Communicated by <i>Damian Tort</i> .)
WEATHERDON, BALDWIN FUL- [FORD.	1712	3rd June 1869	An improved safety bag for conveying despatches or other articles of value by sea. (Communicated by <i>François Coquelle and Eugène Langlais, junior</i> .)
WEATHERDON, BALDWIN FUL- [FORD.	1755	7th June 1869	An improved tension swivel-coupling for nautical and other purposes. (Communicated by <i>François Casana</i> .)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WEATHERILL, HENRY - -	1667	31st May 1869	Certain improvements in the construction of carriage axles and axle boxes.
WEBB, CHARLES HENRY - -	2382	9th Aug. 1869	An improved apparatus for adding numbers. (Patented by William Robert Lake.)
WEBB, FRANCIS WILLIAM - -	3403	25th Nov. 1869	Improvements in locomotive and other steam-engines and boilers, parts of which are applicable to rivetted work and railway rolling stock in general.
WEBB, FRANCIS WILLIAM - -	3747	27th Dec. 1869	Mills for rolling and crushing metals and other materials.
WEBB, FREDERICK CHARLES - -	3489	2nd Dec. 1869	Improvements in the manufacture of submarine telegraphic cables and in the machinery employed in such manufacture.
WEBB, THOMAS - - -	2520	24th Aug. 1869	Ventilation of mines.
WEBB, THOMAS GEORGE - -	959	30th March 1869	Improvements in furnaces for the manufacture of glass, commonly called melting furnaces, and in the manufacture of melting pots for the same.
WEBB, THOMAS STAMMERS - -	2617	6th Sept. 1869	Manufacture of iron and steel.
WEBBER, GEORGE - - -	3226	9th Nov. 1869	Machines for heckling hemp. (Patented by William Robert Lake.)
WEBSTER, JAMES - - -	2605	4th Sept. 1869	A new or improved nozzle for blowing air, steam, water or other liquids and gases, and blowing, drawing, mixing and forcing fluids and vapours.
WEBSTER, WILLIAM - - -	52	7th Jan. 1869	Improvements in treating and softening jute, hemp, flax and other fibrous substances, and in the machinery or apparatus connected therewith.
WEEKES, CHARLES - - -	947	30th March 1869	Preparation of wood and other fuel for the purpose of combustion, particularly applicable to firewood.
WEEMS, JOHN - - -	539	22nd Feb. 1869	Machinery, apparatus or means for malting, heating, drying, cooling and ventilating.
WEEMS, WILLIAM - - -	539	22nd Feb. 1869	Machinery, apparatus or means for malting, heating, drying, cooling and ventilating.
WEHLE, THEODORE - - -	3680	20th Dec. 1869	Means and apparatus for utilizing the force of the waves.
WEIGEL, BARNETT - - -	1264	24th April 1869	Manufacture of shirt studs and solitaires.
WEIGEL, JACOB - - -	1264	24th April 1869	Manufacture of shirt studs and solitaires.
WEIR, GEORGE - - -	3650	17th Dec. 1869	Slide valves.
WEIR, JAMES - - -	3650	17th Dec. 1869	Slide valves.
WEISS, THEODOR - - -	2686	14th Sept. 1869	Furnaces and ovens or kilns. (Patented by William Edward Newton.)
WEISSBURG, MARCUS - - -	397	9th Feb. 1869	An improved motive-power engine. (Patented by George White.)
WELCH, ALFRED - - -	2949	9th Oct. 1869	Cattle trucks.
WELCH, ALFRED - - -	3039	18th Oct. 1869	Cattle trucks.
WELDON, EDWARD - - -	3546	8th Dec. 1869	Portable apparatus provided with means for carrying and cooking food, for containing and heating liquids, and with appliances for the toilet and other like purposes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WELDON, WALTER - - -	291	30th Jan. 1869	Improvements in the regeneration of certain compounds of manganese from certain residues, and in the manufacture of chlorine and oxygen.
WELDON, WALTER - - -	732	10th March 1869	Improvements in obtaining certain compounds of manganese from chlorine residues and in manufacturing chlorine by means thereof, and in apparatus and arrangements for these purposes.
WELLING, WILLIAM MANDE- [VILLE.	223	25th Jan. 1869	Compositions resembling ivory.
WELLS, CHARLES DE VILLE -	3200	4th Nov. 1869	An improvement for regulating the speed of marine steam-engines when the screw is lifted out of the water.
WELLS, GEORGE - - -	969	31st March 1869	Separating copper and bismuth from ores containing metals, either separately or combined with other metals. (Communicated by Thomas Young Cotter and Charles Louis Dubois.)
WELLS, SAMUEL, the younger -	1877	18th June 1869	Manufacture of the handles of kettles and other vessels and articles.
WELLS, THOMAS - - -	1001	2nd April 1869	Improved arrangements of mechanism for facilitating voting by ballot, and in the construction of parts of the apparatus in connection therewith.
WELLS, WILLIAM - - -	743	11th March 1869	Apparatus for sanitary purposes.
WELTER, EMILE - - -	2767	23rd Sept. 1869	An improved drying machine with application of central ventilation. (Patented by William Edward Gedge.)
WELTON, THOMAS - - -	1388	5th May 1869	A new method of applying oxygenated and other gas charged charcoal for curative and other purposes.
WENDELL, ISAAC PENNINGTON	3456	29th Nov. 1869	Improvements in journal bearings for railway carriages and in the means for lubricating the same. (Patented by William Robert Lake.)
WESSON, — - - -	1510	17th May 1869	Revolving fire-arms. (Patented by William Robert Lake.)
WEST, BENJAMIN FRANKLIN -	534	20th Feb. 1869	An improved double-jointed but-hinge. (Communicated by James Bidwell.)
WEST, JAMES - - - -	2114	13th July 1869	Apparatus for heating by means of steam.
WESTERLUND, AARON FWR- [DINAND.	2531	25th Aug. 1869	Certain improvements in the manufacture of porcelain, faience and pottery, and in apparatus therefor.
WESTLAND, CHARLES S. -	115	14th Jan. 1869	An improved stop motion and regulator for steam pumps. (Patented by William Edward Newton.)
WESTLEY, ROBERT JEKYLL -	2564	30th Aug. 1869	Improved methods of constructing, converting and using billiard and other tables.
WESTMACOTT, PERCY GRAHAM [BUCHANAN.	1898	21st June 1869	Hydraulic or steam cranes or other similar hoisting or hauling machinery.
WESTON, ELIJAH - - -	1674	31st May 1869	Construction of boilers and furnaces for generating steam and for economizing fuel. (Patented by Clinton Edgcumbe Brooman.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WESTON, HUGH - - -	3315	17th Nov. 1869	Manufacture and coating or casing of metallic tubes and rods.
WESTON, THOMAS - - -	3315	17th Nov. 1869	Manufacture and coating or casing of metallic tubes and rods.
WETTSTEIN, JOHN - - -	3144	29th Oct. 1869	Machinery for manufacturing cigars. (Patented by Benjamin Joseph Bernard Mills.)
WEYERMANN, AUGUSTUS -	105	13th Jan. 1869	An improved method of and devices for uniting the ends of pipes or tubes. (Patented by William Robert Lake.)
WHEATCROFT, HENRY [BELCHER.	750	11th March 1869	Cases for holding cigars and other articles. (Patented by William Edward Newton.)
WHEATLEY, THOMAS - - -	2713	18th Sept. 1869	Fastenings for carriage doors.
WHEATLEY, WILLIAM - - -	2713	18th Sept. 1869	Fastenings for carriage doors.
WHEELER, ROBERT - - -	1610	25th May 1869	Hats or coverings for the head.
WHEELER, CYRENUS, junior -	114	14th Jan. 1869	Reaping and mowing machinery. (Patented by Alfred Vincent Newton.)
WHEELER, GEORGE PRINTY -	1689	1st June 1869	Manufacture of mortar for building purposes.
WHEELER, THOMAS KENNEDY, [junior.	2523	25th Aug. 1869	Improvements in cops for weaving and warping purposes, and in machinery for making and in shuttles for containing the same.
WHIELDON, WILLIAM - - -	127	15th Jan. 1869	Apparatus for facilitating the getting of coal, stone and other minerals.
WHIMSTER, THOMAS - - -	289	30th Jan. 1869	Apparatus for exhausting, washing and forcing gaseous or aeriform bodies.
WHIPP, ROBERT - - -	2403	11th Aug. 1869	Manufacture of size.
WHITAKER, RICHARD - - -	2113	13th July 1869	Testotums and apparatus connected therewith.
WHITBY, TIMOTHY - - -	3773	30th Dec. 1869	Improvements in bedsteads and in elastic seats and cushions, and in springs to be used for the same.
WHITCOMB, THOMAS EDWIN -	2777	24th Sept. 1869	An improved automatic railway carriage or car brake. (Patented by Bristow Hunt.)
WHITE, ALBERT MILTON -	1597	24th May 1869	Machinery or apparatus for the manufacture of brushes. (Patented by Edward Thomas Hughes.)
WHITE, FREDERICK - - -	3689	20th Dec. 1869	Improvements in apparatus for indicating time, partly applicable to revolving apparatus for other purposes.
WHITE, GEORGE - - -	397	9th Feb. 1869	An improved motive-power engine. (Communicated by Mr. Marcus Weissburg.)
WHITE, GEORGE - - -	1238	22nd April 1869	A ship-weir or moveable dam for cleaning and appropriating the bed or course of rivers or other running navigable streams. (Communicated by Johann Nepomac Moerath.)
WHITE, GEORGE - - -	1249	23rd April 1869	An improved motive power engine. (Communicated by Alois Drasch.)
WHITE, GEORGE - - -	1280	26th April 1869	An improved apparatus for carding tow. (Communicated by Messieurs John Clay, James Leslie and Emile Demulder.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WHITE, GEORGE - - -	1998	2nd July 1869	An improved rotary steam-engine. (Communicated by William Dorning.)
WHITE, GEORGE - - -	2405	11th Aug. 1869	Pipes for smoking tobacco. (Communicated by Messieurs Hochapfel, frères.)
WHITE, GEORGE - - -	3175	2nd Nov. 1869	An improved metallic central-fire cartridge for breech-loading fire-arms. (Communicated by Josef Neumeyer.)
WHITE, GEORGE - - -	3579	11th Dec. 1869	Apparatus used for steering, controlling and propelling steamships and other navigable vessels.
WHITE, JOHN BRIGHAM -	3686	20th Dec. 1869	Boxes or cases for packing and carrying eggs. (Patented by James Henry Richardson.)
WHITE, THOMAS - - -	1154	14th April 1869	Improvements in nutcrackers and lobster crackers, and in apparatus to be used with nutcrackers.
WHITE, WILLIAM - - -	1236	22nd April 1869	An improved mode of hanging or suspending sash frames.
WHITE, WILLIAM - - -	1706	2nd June 1869	Improvements in the manufacture of magnesium and in the preparation of its anhydrous chloride.
WHITE, WILLIAM - - -	1990	1st July 1869	Production of sodium and potassium.
WHITE, WILLIAM - - -	3505	3rd Dec. 1869	Production of potassium, sodium and zinc.
WHITE, WILLIAM - - -	3738	24th Dec. 1869	Velocipedes.
WHITE, WILLIAM GEORGE -	1026	5th April 1869	Improvements in the manufacture of iron or steel safes, safe and strong room doors and other like structures, parts of which improvements are applicable to other purposes.
WHITECHURCH, GEORGE [SWANSBOROUGH.	2857	2nd Oct. 1869	Stoves and fire places.
WHITECHURCH, HENRY - -	2857	2nd Oct. 1869	Stoves and fire places.
WHITEHALL, JOHN BATKIN -	147	16th Jan. 1869	Machinery and apparatus for the manufacture of looped fabrics.
WHITEHEAD, HENRY GEORGE	1502	17th May 1869	Manufacture of spring knife cutlery.
WHITEHEAD, HENRY WALTON	530	20th Feb. 1869	Machinery for combing wool, cotton, flax and other fibrous substances.
WHITEHEAD, HENRY WALTON	3241	10th Nov. 1869	Machinery for combing wool, cotton, flax and other fibrous substances.
WHITEHEAD, JOHN - - -	569	24th Feb. 1869	Furnaces for steam-boilers and other purposes.
WHITEHEAD, RICHARD WAIN- [WRIGHT.	1979	1st July 1869	Coupling or jointing pipes or tubes.
WHITEHEAD, THOMAS - - -	1394	6th May 1869	Machinery for combing wool and other fibres.
WHITEHEAD, THOMAS - - -	1470	13th May 1869	Machinery for combing wool and other fibres.
WHITEHEAD, THOMAS - - -	2507	23rd Aug. 1869	An improved shackle and roller end for hardening machines for felting.
WHITEHEAD, THOMAS - - -	3241	10th Nov. 1869	Machinery for combing wool, cotton, flax and other fibrous substances.
WHITEHOUSE, HENRY - - -	850	20th March 1869	Tuyeres for blast furnaces, forges and for other furnaces.
WHITEHURST, FREDERICK [FIELD.	1174	16th April 1869	Apparatus and machinery for mashing grain and obtaining products therefrom.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WHITEHURST, FREDERICK [FEILD.	3019	16th Oct. 1869	Apparatus and machinery for mashing grain and obtaining products therefrom.
WHITELEY, WILLIAM - -	2816	28th Sept. 1869	Machinery or apparatus for roving and spinning wool, cotton and other fibrous substances.
WHITESIDE, PETER - -	1634	27th May 1869	Mowing and reaping machines. (Communicated by the Kniffen Mowing Machine Company.)
WHITLEY, JOSEPH - - -	1149	14th April 1869	Machinery for producing moulds and cores to be used in casting metals.
WHITNEY, — - -	2024	5th July 1869	Water meters. (Patented by William Robert Lake.)
WHITTAKER, ELIZA - -	3493	2nd Dec. 1869	Steam-boiler furnaces and flues.
WHITTAKER, HENRY - -	3567	10th Dec. 1869	An improved method of connecting the ends of packing hoops or other metal hoops or bands, and for apparatus employed in connection therewith.
WHITTAKER, JOHN - -	1254	23rd April 1869	Machines for moulding wheels.
WHITTAKER, JOHN WILLIAM- [SON.	3493	2nd Dec. 1869	Steam-boiler furnaces and flues.
WHITTAKER, OLDHAM - -	799	16th March 1869	Improvements in the construction of "saddles" and hangers and top and bottom bearings, for shafting and rollers used in connection with machinery for preparing and spinning cotton and other fibrous substances.
WHITTEMORE, ALBERT SYL- [VANUS.	2753	22nd Sept. 1869	Threshing machines. (Patented by Alfred Vincent Newton.)
WHITTY, WILLIAM ALFRED -	2899	6th Oct. 1869	An improved advertizing medium.
WHITWORTH, THOMAS SCHO- [FIELD.	2197	20th July 1869	Machinery or apparatus for preparing, spinning and doubling cotton and other fibrous materials.
WHYTE, JOSIAH - - -	304	1st Feb. 1869	Construction of "tailors' shears" and scissors.
WIBBERLEY, JOHN THOMAS -	526	20th Feb. 1869	Machinery or apparatus for winding cotton, silk, wool or other threads on spools or reels.
WICHELHANS, H. - - -	89	12th Jan. 1869	Production of colors from naphthaline. (Patented by Asley Paston Price.)
WICKE, FRIEDRICH - -	2623	6th Sept. 1869	Certain improvements in the treatment of human excrements, whereby they are converted into an inodorous, dry and easily portable manure.
WIELEMANS, PIERRE JOSEPH	290	30th Jan. 1869	Ovens.
WIGHAM, JOHN RICHARDSON -	2809	27th Sept. 1869	Improvements in the means and apparatus employed in illuminating buoys, beacons, lighthouses and other establishments or localities, which improvements are partly applicable to other purposes.
WIGHAM, JOHN RICHARDSON -	3771	30th Dec. 1869	Gas-burners for illuminating beacons, buoys and lighthouses.
WIGLESWORTH, ARTHUR -	1743	5th June 1869	Improvements applicable to curtain poles for beds and other purposes.
WIGRAM, REGINALD - -	60	8th Jan. 1869	Horse ploughs.
WIGZELL, ATWOOD - -	2488	20th Aug. 1869	Certain improvements in "steam-boilers."
WIGZELL, EUSTACE - -	2898	6th Oct. 1869	Improvements in metallic pistons for steam-engines and in the manufacture thereof.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WILD, ARTHUR MARSDEN -	274	29th Jan. 1869	Apparatus for grinding and polishing engine slide bars, shear blades, marble slabs, saw blades and other flat surfaces where great accuracy is required.
WILD, JOHN - - - -	813	17th March 1869	Improved tapes for venetian window-blinds, for ribbons, hatbands and similar articles, and for improved looms and apparatus for weaving them.
WILD, JOHN - - - -	2831	29th Sept. 1869	An improved furnace cistern for melting material from which glass is made, and for keeping the same in working condition during the process of blowing.
WILD, JOHN - - - -	3885	20th Dec. 1869	Manufacture of pile fabrics.
WILD, MATTHEW - - -	2922	8th Oct. 1869	Construction of steam-boilers.
WILDE, HENRY - - -	3198	4th Nov. 1869	Construction and working of electric telegraphs.
WILDING, WILLIAM PILKING- [TON.]	1951	28th June 1869	An improvement in the construction of self-acting mules employed for spinning cotton.
WILKES, GEORGE HENRY -	3366	22nd Nov. 1869	Supporting clothes lines.
WILKIN, MARMADUKE - -	65	8th Jan. 1869	Railway breaks.
WILKIN, MARMADUKE - -	1322	29th April 1869	Radiating the axles of railway carriages.
WILKINS, JOHN - - -	204	22nd Jan. 1869	Manufacture of looped and knitted fabrics.
WILKINS, THOMAS - - -	1737	4th June 1869	Machinery or apparatus for slicing cucumbers and other vegetables for culinary purposes.
WILKINSON, GEORGE - -	1866	17th June 1869	Manufacture of sugar. (Patented by John Henry Johnson.)
WILKINSON, JOHN - - -	396	9th Feb. 1869	Looms for weaving.
WILKINSON, SAMUEL WRIGHT	3365	22nd Nov. 1869	Construction of pillar, post-office and other stationary or portable letter-boxes and bags.
WILKINSON, WILLIAM - -	1495	15th May 1869	Improvements in embossing, printing, enamelling and ornamenting glass, metal, wood, canvass or other woven prepared fabrics or other substances, and the preparation of the material or materials and ingredients employed therein, and machinery or apparatus appertaining to a part thereof.
WILLAN, ALBERT - - -	2489	20th Aug. 1869	Velocipedes and other vehicles propelled by manual power.
WILLANS, JACOB GEOGHEGAN	326	3rd Feb. 1869	Manufacture of iron and steel.
WILLANS, JACOB GEOGHEGAN	632	1st March 1869	Improvements in the manufacture of iron and steel and in apparatus employed therein.
WILLANS, JACOB GEOGHEGAN	2724	18th Sept. 1869	Manufacture of iron and steel.
WILLARD, CYRENIUS METCALF	214	23rd Jan. 1869	Machines for quarrying and sawing stone or minerals. (Patented by John Millward.)
WILLATS, JAMES - - -	1189	17th April 1869	A new mode of advertising.
WILLATS, JAMES - - -	3020	16th Oct. 1869	Playing cards.
WILLCOX, ROBERT - - -	2121	14th July 1869	Improvements on appliances or instruments for finding and for picking up submarine cables, and apparatus connected therewith.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WILLETT, HENRY - - -	3648	17th Dec. 1869	Construction of groynes and breastworks.
WILLIAMS, AARON WHITE [COOK.	37	5th Jan. 1869	Lawn mowers. (Communicated by Ameriah Miller Hills.)
WILLIAMS, AARON WHITE [COOK.	1165	15th April 1869	Improvements in bottles and jars for preserving fruit and other substances, and in stoppers for the same.
WILLIAMS, ALFRED - - -	1372	4th May 1869	An improved method of and apparatus for bending, curving, straightening and flattening metallic sheets, plates or bands, and also round, flat, square, angular and other bars of iron or other metals.
WILLIAMS, ALFRED - - -	1765	8th June 1869	Gas stoves for cooking purposes.
WILLIAMS, CHARLES - - -	605	26th Feb. 1869	Apparatus for obtaining motive-power.
WILLIAMS, DOUGLAS JOSEPH -	2651	9th Sept. 1869	Improvements in moveable partitions for the interiors of buildings, and in shutters for such wide openings in the outside walls of buildings as require no glass or like substance.
WILLIAMS, GEORGE WELLS -	1849	15th June 1869	An improved mode of and machinery for producing a polished or enamelled surface upon sheet iron. (Patented by William Robert Lake.)
WILLIAMS, HUGH - - -	1856	3rd May 1869	Velocipedes.
WILLIAMS, ISAIAH - - -	2061	8th July 1869	Machinery for the manufacture of fish hooks. (Communicated by Ole Ruskeland.)
WILLIAMS, JAMES, the younger	3448	29th Nov. 1869	A new or improved apparatus for toasting, roasting and cooking.
WILLIAMS, JOHN - - -	2455	17th Aug. 1869	Improvements in maps and in scientific and educational diagrams to facilitate references and ascertain distances.
WILLIAMS, JOHN - - -	2513	24th Aug. 1869	An improved junction of barrel and action for breech-loading fire-arms and sporting guns, with self-acting exploded cartridge extractor.
WILLIAMS, JOHN - - -	2829	29th Sept. 1869	Lifting jacks.
WILLIAMS, JOHN RAILTON -	2150	16th July 1869	An improved apparatus for opening and closing the lights of cucumber and other frames so as to give air, and for actuating and regulating the ventilators in hot-houses and in other places where it is necessary to maintain an even temperature.
WILLIAMS, RICHARD PRICE -	556	22nd Feb. 1869	Railway crossings and switches.
WILLIAMS, RICHARD PRICE -	1625	26th May 1869	Fishes for fishing railway rails.
WILLIAMS, RICHARD PRICE -	2148	16th July 1869	Railway crossings.
WILLIAMS, ROBERT NOKES -	1925	24th June 1869	Manufacture of reflectors for artificial light.
WILLIAMS, THOMAS EVAN -	956	30th March 1869	An improved method of and apparatus for distilling hydrocarbon oils. (Communicated by Henry Grogan.)
WILLIAMS, WILLIAM - - -	394	9th Feb. 1869	Communicating between the passengers and the guard and driver of railway trains.
WILLIAMS, WILLIAM - - -	571	24th Feb. 1869	Laying and joining pipes for gas, water and other like purposes.
WILLIAMS, WILLIAM - - -	2184	19th July 1869	An elastic horse boot.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WILLIAMS, WILLIAM - -	3591	11th Dec. 1869	Improvements in subaqueous and tunnel communications, such for instance, as submarine and other railway tunnels, and in generating tidal and hydraulic pneumatic power to be used for such communications and otherwise.
WILLIAMS, WILLIAM FREDERICK. [RICK.]	1934	25th June 1869	Boxes for holding jewellery and for other similar purposes.
WILLIAMS, WILLIAM FREDERICK. [RICK.]	2567	30th Aug. 1869	Boxes for holding jewellery and other articles.
WILLIAMS, WILLIAM HASLET	1831	15th June 1869	Machinery and apparatus for letter printing. <i>(Patented by Frederick Collier Bakewell.)</i>
WILLIAMS, WILLIAM HENRY -	3605	13th Dec. 1869	An improved mode of cutting veneers. <i>(Patented by Joseph Gardner.)</i>
WILLIAMS, WILLIAM MATTIEU	4	1st Jan. 1869	Fettling or lining puddling furnaces used in the manufacture of iron and steel.
WILLIAMSON, WILLIAM BLIZARD. [ZARD.]	3710	22nd Dec. 1869	Fastenings for trunks, portmanteaus, boxes and other like articles.
WILLIN, THOMAS WILLIS -	2785	24th Sept. 1869	Watches and other time-keepers.
WILLIS, JAMES - - -	3316	17th Nov. 1869	Manufacture of umbrellas.
WILLIS, JAMES - - -	3571	10th Dec. 1869	Manufacture of sunshades and umbrellas.
WILLIS, REUBEN - - -	2590	2nd Sept. 1869	Railway chairs. <i>(Patented by Stephen Willis.)</i>
WILLIS, ROBERT - - -	3055	20th Oct. 1869	An improved quadrantal-action lever stamping and cancelling press.
WILLIS, STEPHEN - - -	2590	2nd Sept. 1869	Railway chairs. <i>(Communicated by Frederick Nicklin and Reuben Willis.)</i>
WILLIS, WILLIAM HENRY -	3464	30th Nov. 1869	A new or improved apparatus for registering or indicating the points of games, also applicable to calendars and other similar useful purposes.
WILSON, ALEXANDER FAIRLIE	2836	30th Sept. 1869	Mode of and apparatus for utilizing waste heat from the furnaces of gas retorts.
WILSON, EDWARD - - -	1009	3rd April 1869	Improvements in velocipedes, parts of which improvements relate to a ratchet and treadle motion applicable to various machines.
WILSON, GEORGE - - -	3640	16th Dec. 1869	Railway wheels.
WILSON, GEORGE DANIEL -	1438	11th May 1869	Velocipedes.
WILSON, GEORGE HENRY -	993	1st April 1869	Apparatus for securing or fastening window sashes, and an improved bolt applicable to sash fasteners of all kinds.
WILSON, HENRY - - -	3346	20th Nov. 1869	Lubricating apparatus for steam-engines, steam hammers and other mechanism in which steam is the motive-power.
WILSON, HENRY - - -	3590	11th Dec. 1869	Improvements in machinery for cutting timber into laths, strips, flooring and other boards and pieces, also for cutting metals and other materials.
WILSON, JAMES, the younger -	239	26th Jan. 1869	Machinery for preparing, drawing and finishing wool, cotton and other fibres.
WILSON, JAMES - - -	1640	28th May 1869	Wooden railways. <i>(Communicated by John O. York.)</i>
WILSON, JAMES - - -	1641	28th May 1869	Manufacture of wrought iron. <i>(Communicated by John O. York.)</i>

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WILSON, JOHN - - -	239	26th Jan. 1869	Machinery for preparing, drawing and finishing wool, cotton and other fibres.
WILSON, JOHN - - -	241	26th Jan. 1869	Machinery for shaking straw.
WILSON, JOHN - - -	1343	1st May 1869	An improvement in the construction of bobbins employed in slubbing, roving and other similar machines used in the preparation of cotton for spinning.
WILSON, JOHN BENTLEY -	3497	2nd Dec. 1869	Bowls or rollers used in calendaring and other pressing or squeezing machinery.
WILSON, JOHN CHARLES -	3499	3rd Dec. 1869	An improved revolving engine and pump applicable as a fluid meter.
WILSON, JOHN GUY - -	2231	22nd July 1869	Velocipedes.
WILSON, JOHN WILLIAM -	191	21st Jan. 1869	Steam-boilers.
WILSON, MATTHEW - -	2475	19th Aug. 1869	Bird cages.
WILSON, MATTHEW - -	3198	4th Nov. 1869	Sink traps.
WILSON, NEWTON - - -	1205	20th April 1869	Sewing-machines.
WILSON, NEWTON - - -	1248	23rd April 1869	Velocipedes.
WILSON, NEWTON - - -	2870	4th Oct. 1869	Certain improvements in the manufacture and cementation or welding of steel and iron, iron and iron, and steel and steel together, and in adapting such improvements to various useful purposes.
WILSON, NEWTON - - -	2927	8th Oct. 1869	Sewing-machines.
WILSON, PETER - - -	3257	11th Nov. 1869	Improvements in locks and latches and in keys for locks, and in attaching door and other knobs to spindles.
WILSON, RICHARD - - -	1808	12th June 1869	Improved fasteners for neckties.
WILSON, ROBERT - - -	1500	17th May 1869	Machinery for preparing to be spun and for spinning and doubling cotton and other fibrous materials.
WILSON, ROBERT - - -	3364	22nd Nov. 1869	Construction of hydraulic presses and other hydraulic machinery.
WILSON, SAMUEL - - -	2987	14th Oct. 1869	Applying power to the knee joint levers of certain presses used in pressing cotton and suitable for other materials.
WILSON, SETH WYLE - -	794	15th March 1869	Steam vessels for ocean and river navigation. (Patented by William Robert Lake.)
WILSON, THOMAS - - -	1257	23rd April 1869	Cartridges for breech-loading fire-arms.
WILSON, THOMAS - - -	2023	5th July 1869	Constructing and working velocipedes.
WILSON, THOMAS - - -	2580	1st Sept. 1869	Improvements in screw and ratchet wrenches, part of which improvements is also applicable to pipe cutters.
WILSON, THOMAS BRIGHT -	1438	11th May 1869	Velocipedes.
WIMSHURST, HENRY - -	2380	9th Aug. 1869	Improvements in marine propellers and in vessels to receive the same.
WINANS, THOMAS - - -	3722	23rd Dec. 1869	Adjusting and packing the rails of railways. (Patented by William Edward Newton.)
WINANS, THOMAS - - -	3723	23rd Dec. 1869	Improvements in forming the joints of the permanent way of railways, or in securing or connecting the rails together so as to form a continuous rail of equal strength and rigidity throughout. (Patented by William Edward Newton.)
WINANS, WILLIAM LOUIS -	3722	23rd Dec. 1869	Adjusting and packing the rails of railways. (Patented by William Edward Newton.)

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WINANS, WILLIAM LOUIS -	3723	23rd Dec. 1869	Improvements in forming the joints of the permanent way of railways, or in securing or connecting the rails together so as to form a continuous rail of equal strength and rigidity throughout. (Patented by William Edward Newton.)
WINCHESTER, OLIVER FISHER	1184	17th April 1869	Improvements in rifled fire-arms and ordnance, and in ammunition for the same. (Patented by Edward Thomas Hughes.)
WINDER, THOMAS - - -	465	16th Feb. 1869	An improved spring coupling.
WINDHAUSEN, FRANZ - -	669	5th March 1869	Improvements applicable to freezing and ice making machines.
WINDLE, JOHN - - -	2278	27th July 1869	Rolling hoops or tyres of iron or steel.
WINDOW, FREDERICK RICHARD	3049	19th Oct. 1869	An improved process for producing photographs in pigments.
WINDSOR, BROTHERS - -	1995	2nd July 1869	Weighting motions used in machinery for preparing, spinning, twisting and doubling fibrous materials and for other similar purposes. (Patented by Edward Scott.)
WINDSOR, JOHN - - -	2749	22nd Sept. 1869	Desiccating and preserving potatoes.
WINKLE, ABRAHAM VAN -	1535	18th May 1869	An improved device for securing corks in bottles. (Communicated by William M. Littell.)
WINN, CHARLES - - -	2727	18th Sept. 1869	Machinery for cutting or shaping metals.
WINN, MARK LANGDON - -	3188	3rd Nov. 1869	An improved apparatus for shampooing and washing the head.
WINSHIP, JAMES - - -	2274	27th July 1869	Preparation and application of medicaments for internal and external use.
WINTER, JAMES, the younger -	1028	5th April 1869	Improved apparatus for filling glass bottles and jars with soups, jellies, fruits and other edibles, for the purpose of preserving them, the said apparatus being also applicable for filling bottles with sauces, wines, spirits, beer, liqueurs and other still and effervescing beverages, also machinery in combination with the above apparatus for corking or stoppering such said bottles and jars.
WINTER, JAMES, the younger -	2884	5th Oct. 1869	Improved apparatus for filling glass bottles and jars with soups, jellies, fruits and other edibles, for the purpose of preserving them, the said apparatus being also applicable for filling bottles with sauces, wines, spirits, beer, liqueurs and other still and effervescing beverages, also machinery in combination with the above apparatus for corking or stoppering such said bottles and jars.
WINTER, TIMOTHY - - -	2259	26th July 1869	Machinery for combing reeds.
WINTER, WILLIAM - - -	2568	30th Aug. 1869	An improved metallic driving belt or band and the means of manufacturing same, also the application thereof and other metallic belts for driving sewing-machines.
WISDOM, PHILIP - - -	2734	20th Sept. 1869	A machine for twisting and curling hair for use in stuffing beds, furniture and like purposes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WISE, WILLIAM LLOYD - -	1785	9th June 1869	Improvements in the manufacture of artificial fuel and in apparatus for the purpose. (Communicated by Messieurs Buesmel, Le Quesne and Dumontier.)
WISE, WILLIAM LLOYD - -	2083	6th July 1869	Apparatus for lubricating the cylinders of steam-engines. (Communicated by Edouard Lainé.)
WISE, WILLIAM LLOYD - -	3676	18th Dec. 1869	An improved instrument for levelling and for measuring angles. (Communicated by Kukatzkay's, Seyss and Company.)
WITHERS, JOHN - - -	1429	10th May 1869	Water meters.
WITTRAM, FREDERICK - -	2486	19th Aug. 1869	Screw propellers. (Patented by William Robert Lake.)
WITTY, DAVID - - -	2762	23rd Sept. 1869	Improved apparatus for propelling vessels.
WOHLGEMUTH, FRIEDRICH -	1945	26th June 1869	Changing a breech-loading shot gun into a breech-loading rifle.
WOLF, AUSTIN DE - - -	1612	26th May 1869	Tools for cutting glass and other vitreous substances. (Patented by Martin Benson.)
WOLFGANG, MARK SCHMERL -	1424	10th May 1869	Cricket and other balls.
WOLFSKY, MORITZ - - -	17	4th Jan. 1869	Locks or fastenings for purses, satchels, pocket books and similar articles.
WOLFSKY, MORITZ - - -	1006	3rd April 1869	Locks and fastenings for bags, satchels, boxes and other like articles.
WOLFSKY, MORITZ - - -	1484	14th May 1869	An improved sliding fastening or lock for purses, pocketbooks, boxes, satchels, bags and other similar articles.
WOLTERS, WILHELM - - -	1902	22nd June 1869	Apparatus or machinery for opening and closing gates, doors or barriers, and for actuating semaphore signals by means of electricity. (Patented by Charles Denton Abel.)
WOOD, BENJAMIN - - -	481	17th Feb. 1869	Improvements in or applicable to steam-engines.
WOOD, BENJAMIN - - -	3423	26th Nov. 1869	Manufacture of lids for railway axle boxes.
WOOD, COLLINGWOOD LINDSAY	236	26th Jan. 1869	Apparatus for grinding plate glass.
WOOD, EDWARD - - -	2607	4th Sept. 1869	Construction of furnaces.
WOOD, JAMES - - -	3460	30th Nov. 1869	Ventilating hats or other coverings for the head.
WOOD, JOHN - - -	481	17th Feb. 1869	Improvements in or applicable to steam-engines.
WOOD, JOHN - - -	1779	9th June 1869	Machinery for embroidering.
WOOD, JOSEPH - - -	3460	30th Nov. 1869	Ventilating hats or other coverings for the head.
WOOD, RICHARD - - -	298	30th Jan. 1869	Improvements in steam-engines or applicable thereto.
WOOD, RICHARD - - -	481	17th Feb. 1869	Improvements in or applicable to steam-engines.
WOOD, WILLIAM HENRY -	3460	30th Nov. 1869	Ventilating hats or other coverings for the head.
WOODHEAD, JONAS - - -	901	24th March 1869	Flooring cramps.
WOODHOUSE, SAMUEL JOSEPH	2395	10th Aug. 1869	Improved apparatus for purifying and regulating the supply of gas to burners, and also for an improved standard tap.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WOODMAN, JAMES - - -	1533	18th May 1869	Improvements in the mode of and in apparatus for the propulsion of velocipedes and other vehicles.
WOODS, JOSEPH - - -	638	2nd March 1869	Construction and working of temples and rollers for winding the cloth, and other rollers to be used in power looms for weaving.
WOODS, JOSEPH - - -	1022	5th April 1869	Looms for weaving.
WOODSIDE, ELBRIDGE GERRY	1900	21st June 1869	Carriage wheels. (Patented by William Robert Lake.)
WOODWARD, DAVID ACHESON	3515	4th Dec. 1869	Fluid lenses. (Patented by William Brookes.)
WOODWARD, FRANCIS - -	3082	23rd Oct. 1869	Apparatus for signalling and communicating on railway trains.
WOODWARD, JOHN - - -	1522	18th May 1869	Gas and water meters.
WOODWARD, JOHN - - -	3322	18th Nov. 1869	Gas and water and other liquid meters.
WOODWARD, JOSEPH - -	3716	23rd Dec. 1869	Manufacture of bricks, tiles and slabs or blocks for building purposes.
WOODWARD, LUKE - - -	3674	18th Dec. 1869	Knitting frames.
WOOF, WILLIAM - - -	1853	16th June 1869	Construction of ploughs.
WOOLF, HENRY - - -	2839	30th Sept. 1869	An improvement in hat brims.
WOOLF, ISRAEL EDWARD	2423	13th Aug. 1869	Casters for furniture and other like articles. (Communicated by John Louis Woolf.)
WOOLF, JOHN LOUIS - -	2423	13th Aug. 1869	Casters for furniture and other like articles. (Patented by Israel Edward Woolf.)
WORMALD, JOHN - - -	3517	4th Dec. 1869	A new or improved pipe wrench.
WORRALL, JAMES - - -	2792	25th Sept. 1869	Improved machinery for folding piece goods.
WORSSAM, HENRY JOHN	1160	15th April 1869	Machinery for lifting casks, boxes, bales or packages from one floor to another.
WORTH, JOHN - - -	2086	10th July 1869	Cards for carding cotton, wool and other fibrous substances.
WORTH, THOMAS BOND - -	1707	2nd June 1869	Manufacture of carpets, coach lace and other terry fabrics.
WOTHERSPOON, JOHN - -	1068	8th April 1869	Machinery for cutting metal tubes, pipes, cylinders, bars or similar articles, and for facing the ends or flanges thereof.
WEAY, LEONARD - - -	337	3rd Feb. 1869	An improved process for carbonizing and hardening wrought iron.
WRAY, LEONARD - - -	1446	11th May 1869	Improved apparatus for crushing, grinding and pulverizing quartz and other hard substances.
WRAY, LEONARD - - -	2833	29th Sept. 1869	Machinery or apparatus for crushing stone and other hard substances.
WRAY, LEONARD - - -	3154	30th Oct. 1869	Motive-power engines.
WREY, WILLIAM LONG - -	852	20th March 1869	Toothed gearing.
WRIGHT, ALEXANDER PATRICK	3155	30th Oct. 1869	Machinery for breaking, softening and preparing flax and other fibrous materials. (Communicated by Robert Hanham Collyer.)
WRIGHT, DAVID PITCAIRN -	126	15th Jan. 1869	Certain improvements in the rollers and furniture for window-blinds.
WRIGHT, DAVID PITCAIRN -	1359	3rd May 1869	Certain improvements in lamps for burning paraffin and other hydrocarbon oils.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
WRIGHT, JAMES - - -	2058	8th July 1869	An improved shaving mug. (Communicated by Fisher M. Keeler.)
WRIGHT, JAMES - - -	3714	23rd Dec. 1869	Method of and the means for supplying inland towns with pure salt sea-water for bathing and other purposes.
WRIGHT, JOHN - - -	3786	31st Dec. 1869	Improved means of indicating the mileage of cabs and other vehicles, and apparatus connected therewith.
WRIGHT, LEMUEL WELLMAN -	2315	2nd Aug. 1869	Paddle wheels.
WRIGHT, RICHARD - - -	652	3rd March 1869	Doors for railway carriages.
WRIGHT, SHEFFIELD H. -	788	15th March 1869	An improved traverse card grinder. (Patented by John Charles Shaw.)
WRIGHT, THOMAS - - -	1507	17th May 1869	Improvements in the manufacture of lace made on bobbin-net or twist-lace machines, and in the machinery or apparatus employed therein.
WRIGHT, THOMAS - - -	3184	3rd Nov. 1869	Machinery or apparatus employed in the manufacture or production of piles on net or lace or other fabric made on twist lace machines.
WRIGHT, WILLIAM - - -	22	4th Jan. 1869	Production of white lead.
WRIGHT, WILLIAM - - -	1151	14th April 1869	Treating ores to obtain copper and other metals therefrom.
WRIGHT, WILLIAM - - -	1251	23rd April 1869	Sheep-washing apparatus. (Patented by George Tomlinson Bonsfield.)
WRIGHT, WILLIAM - - -	1260	24th April 1869	A new or improved manufacture of white lead and apparatus employed therein.
WRIGHT, WILLIAM - - -	2396	10th Aug. 1869	Knobs and spindles.
WRIGHT, WILLIAM - - -	2613	4th Sept. 1869	Treatment of burnt cupreous pyrites for the extraction of the metals contained therein.
WRIGHT, WILLIAM LECKIE [GRAHAM.	3529	7th Dec. 1869	A new or improved arrangement of apparatus for forcing and projecting liquids and fluids.
WRIGLEY, MILES - - -	1695	2nd June 1869	Improved apparatus for the prevention of accidents upon railways.
WUNDRAM, GEORGE WILLIAM	3754	28th Dec. 1869	Sectional steam-boilers. (Patented by William Robert Lake.)
WYATT, SAMUEL - - -	3428	26th Nov. 1869	Improvements in the preservation of meat and in the apparatus employed therein.
WYBRANTS, SILVESTER RAIT -	846	19th March 1869	Manufacture of textile fabrics.
WYLAM, EDWARD - - -	3110	27th Oct. 1869	Fuel-feeding and smoke-consuming apparatus for furnaces.
WYLLIE, ALEXANDER - - -	3179	2nd Nov. 1869	Improvements in the manufacture of "Scotch bonnets" and in the material, means and apparatus employed therefor.
WYNDHAM, CHARLES - - -	2947	9th Oct. 1869	Wheeled vehicles commonly known as velocipedes.
WYNDHAM, CHARLES - - -	3542	7th Dec. 1869	Apparatus connected with velocipedes.

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
Y.			
Y OBES, NICOLAS HERRARA -	3061	20th Oct. 1869	An improved mode of or process for preserving animal or vegetable substances from decay. (Patented by William Edward Newton.)
YATES, GEORGE - - -	2150	16th July 1869	An improved apparatus for opening and closing the lights of cucumber and other frames so as to give air, and for actuating and regulating the ventilators in hot-houses and in other places where it is necessary to maintain an even temperature.
YATES, HENRY - - -	1964	30th June 1869	Means or apparatus applicable to bobbin net or twist lace machinery, or other machinery arranged and operating in a similar manner.
YATES, HENRY - - -	2536	26th Aug. 1869	Manufacture of lace on bobbin net or twist lace machinery.
YATES, HENRY THOMAS -	2432	14th Aug. 1869	Manufacture or production of cops and spoles.
YATES, JOHN WILLIAM - -	479	16th Feb. 1869	An improvement or improvements in spades, shovels, forks and other similar articles.
YATES, WILLIAM - - -	1836	15th June 1869	Improvements in furnaces for effecting the consumption of smoke.
YEO, FRANK ASH - - -	2317	2nd Aug. 1869	Improved machinery for the manufacture of artificial fuel.
YEOMAN, WILLIAM - - -	3576	10th Dec. 1869	Shuttle sewing-machines.
YEWDALE, HENRY - - -	2768	23rd Sept. 1869	Improvements in machinery or apparatus for the manufacture of bisulphites, and in the application of the same to bleaching and preparing for dyeing or printing textile fabrics and fibres.
YON, CHARLES LOUIS VICTOR	1959	29th June 1869	A new kind of portable camping trunk, containing in a small bulk a light tent with all the required furnitures and implements necessary for military, rambling travellers and emigrants.
YORK, JOHN O. - - -	1640	28th May 1869	Wooden railways. (Patented by James Wilson.)
YORK, JOHN O. - - -	1641	28th May 1869	Manufacture of wrought iron. (Patented by James Wilson.)
YOULE, STANLEY PETER -	3199	4th Nov. 1869	Bar iron for the manufacture of shoes for horses and other animals. (Patented by Stephen Busk.)
YOUNG, JAMES - - -	429	11th Feb. 1869	Apparatus for measuring the pressure of gases and the force of aeriform or gaseous currents.
YOUNG, JAMES - - -	1821	14th June 1869	An improvement in the slide valves of steam-engines.

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ALPHABETICAL INDEX OF PATENTEES, &c.

[Zys

Name of Patentee.	Number of Patent.	Date.	Subject-matter of Patent.
YOUNG, WILLIAM - - -	424	10th Feb. 1869	Means or apparatus for communication between the passengers, guards and drivers of railway trains.
YOUNG, WILLIAM - - -	2585	30th Aug. 1869	An improved method of and apparatus for clarifying and refining butter and other fatty matters.

Z.

ZABEL, OTTO - - -	1919	23rd June 1869	An improved lubricator for oiling or greasing pistons, slides and other motive parts of machinery.
ZACHARIAE, EDWARD - -	2923	8th Oct. 1869	Pedals and damping apparatus for pianofortes and other similar instruments. (Patented by William Robert Lake.)
ZEEDEN, ANTON - - -	3729	24th Dec. 1869	Loaf-sugar cutting machines. (Patented by Gustavus Edwin Born.)
ZEHFUSE, JOHANN GEORG -	2623	6th Sept. 1869	Certain improvements in the treatment of human excrements, whereby they are converted into an inodorous, dry and easily portable manure.
ZENGER, CHARLES WENZELAS	2388	10th Aug. 1869	A globular-cylinder-manometer with double capillary lock.
ZIESCHANG, ALBERT BERNARD	2115	13th July 1869	Breech-loading fire-arms. (Patented by John Barnett.)
ZOEH, GUSTAVE - - -	2530	25th Aug. 1869	A novel process of manufacturing yeast or artificial ferment.
ZUCKERMANN, JACOB - -	843	19th March 1869	Obtaining motive-power for sewing and other machines. (Patented by Alfred Vincent Newton.)
ZYSEL, FRANCIS - - -	1548	19th May 1869	Certain improvements in velocipedes.

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PATENT LAW AMENDMENT ACT, 1852.

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